

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



**2024 Annual Surface Water Report**  
Per Environmental Compliance Approval  
#2290-CAVKGN Condition 12(9)

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## 1. Introduction

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

This report has been prepared to satisfy Condition 12(9) of amended Environmental Compliance Approval (ECA) #2290-CAVKGN issued on April 14, 2022, by the Ministry of Environment, Conservation and Parks (MECP). Condition 12(9) of the amended ECA requires the submission of an annual Surface Water Monitoring report, certified by the Environment 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. The monitoring program is described in detail in ENV-PLN-0009 Surface Water Sampling and Monitoring Plan and can be found in Appendix E.

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 weekly. The calibration records for the field water quality meters are included in Appendix F, while the QA/QC results are presented in Appendix G.

A site plan with surface water sampling and hydrometric monitoring locations is presented in Figure 1. On four 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. Some of the monthly reports in 2024 still refer to SW29A as Tait Creek. This has since been corrected and it should be noted that SW29A was at the new location in McCallum Creek since 2023. For clarity, SW29 was not removed from Table 1 in this report, showing that it was moved from Tait Creek to McCallum Creek and any past results cannot be compared to results from 2023 onwards. No sample location changes were made in 2024.

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.

### 3. 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 and Effluent Discharge Location #2 (EDL2)
- SW22A Pinewood River downstream of the confluence with Loslo Creek and Effluent Discharge Location #2 (EDL2)
- SW03 Pinewood River at realigned Highway 600
- SW23 Pinewood River upstream of Effluent Discharge Location #1 (EDL1)
- SW24 Pinewood River downstream of Effluent Discharge Location #1 (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 2024 for the indicated reasons:

- SW20 Unsafe conditions in March and April
- SW10 Unsafe conditions in February and April
- SW22A Unsafe conditions in February
- SW03 Unsafe conditions in March and April
- SW23 Unsafe conditions in January, March, and April
- SW24 Unsafe conditions in January, March and April
- SW15 Unsafe conditions in January and April

#### 3.1. Area Creeks

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

- SW28A Clark Creek culvert under Teeple road
- SW02 West Creek upstream of the West Creek Diversion (WCD)
- SW25 WCD upstream of Sediment Pond 1 final discharge point
- SW26 WCD at old Highway 600 crossing near end of the diversion downstream of Sediment Pond 1 final discharge point
- SW27 Remnant Loslo Creek downstream of the WCD
- SW29 Tait Creek upstream of the EDL1 pipeline crossing, and
- SW29A McCallum Creek on the north side of the culverts under Highway 600

Samples were not collected at the following area creek surface water locations in 2024 for the indicated reasons:

- SW25 Unsafe conditions in April and stagnant water in October
- SW26 Unsafe conditions in April

### 3.2. 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 2024 for the indicated reasons:

- SW16 Unsafe conditions in January

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

## 4. Surface Water Quality Data and Trends

Pursuant to Condition 12(9)(b) of the ECA, the historical and 2024 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. It should be noted that only total metal results are presented, since the ECA trigger values are all based on total results, but dissolved results can be seen in the excel file that accompanies this report. 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, which is consistent with the baseline data.

### 4.1. Pinewood River

The 2024 annual average surface water quality data for the Pinewood River sample locations is in Table 2. For comparison purposes, Table 3 to Table 10 present the annual average surface water quality data for the years 2016 through 2024. 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. In 2024, the annual average for phosphorus exceeded the ECA SW Trigger value (0.1 mg/L) at SW21A and SW15 with values of 0.107 mg/L and 0.101 mg/L, respectively.

Pursuant to Condition 10(6) of the ECA, Table 11 and Table 12 present the 2024 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. Table 13 to Table 26 present the 2016 to 2024 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 2024 Monthly Performance Report tables.

#### Field pH

Figure 2 presents the field pH levels at all Pinewood River surface water monitoring sample locations for mid-2015 through 2024. 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 3 presents the field pH levels for 2024, which were all within the PWQO upper and lower pH limits.

#### Total Suspended Solids

Figure 4 presents the total suspended solids (TSS) results for all Pinewood River surface water sample locations for mid-2015 through 2024. In general, the TSS results are below 30 mg/L with some elevated results recorded during the spring freshet, summer low flow season and fall rain season. Figure 5 presents the TSS results for 2024, which were mostly below 20 mg/L, apart from SW15 in May and September, measured at 53.4 mg/L and 29.9 mg/L, respectively and SW10 measured at 23.2 mg/L in May.

#### Total Arsenic

Figure 6 presents the total arsenic results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. 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 7 presents the total arsenic results for 2024, which were all below the PWQO limit.

#### Total Copper

Figure 8 presents the total copper results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. 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 9 presents the total copper results for 2024. All results were below the PWQO limit in 2024.

#### Total Lead

Figure 10 presents the total lead results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. 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 11 presents the total lead results for 2024. No samples exceeded the PWQO limits at their associated hardness levels.



### Total Nickel

Figure 12 presents the total nickel results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. To date, all total nickel results are below the PWQO limit (0.025 mg/L). Some higher results, still below the PWQO limit were recorded during the winter and summer low flow seasons. Figure 13 presents the total nickel results for 2024.

### Total Phosphorus

Figure 14 presents the total phosphorus results for all Pinewood River surface water monitoring sample locations for 2017 to 2024. In general, the total phosphorus results are consistent through time with some peaks during wintertime. Figure 15 shows the total phosphorus results for 2024. Due to the laboratory detection limit of 0.05 mg/L, the majority of samples were reported above the PWQO (0.03 mg/L).

### Total Zinc

Figure 16 presents the total zinc results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. 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 17 presents the total zinc results for 2024. All results were below the PWQO limit. No exceedances of the ECA Receiver Trigger value (0.09 mg/L) occurred in 2024.

### Total Mercury

Figure 18 presents the total mercury results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. To date, all total mercury results are below the PWQO limit (0.0002 mg/L) and are often below the method detection limit. Figure 19 presents the total mercury results for 2024. All total mercury results are below the PWQO limit (0.0002 mg/L).

### Un-ionized Ammonia

Figure 20 presents the calculated unionized ammonia results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. To date, all calculated unionized ammonia results are below the PWQO limit (0.02 mg/L) but one result in September 2022 at SW20 (0.028 mg/L). Figure 21 presents the calculated unionized ammonia results for 2024.

### Free Cyanide

Figure 22 presents the free cyanide results for all Pinewood River surface water monitoring sample locations for early 2018 to 2024. To date, all free cyanide results are below the PWQO limit (0.005 mg/L). Figure 23 presents the free cyanide results for 2024.

### Total Aluminum

Figure 24 presents the total aluminum results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. In general, total aluminum concentrations exceed the PWQO limit (0.075 mg/L), which is consistent with baseline results. Figure 25 presents the total aluminum results for 2024, where most sample locations exceeded the limit at most sample events. SW21A and SW22A total aluminum concentrations were below the PWQO limit in the summer low flow months and SW20 concentration was below the limit in November 2024.

### Total Cadmium

Figure 26 presents the total cadmium results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. To date, total cadmium concentrations are below the PWQO limit (0.001 mg/L). Figure 27 presents the total cadmium results for 2024.

### Total Chromium

Figure 28 presents the total chromium results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. To date, total chromium concentrations exceed the PWQO limit (0.001 mg/L) frequently at most surface water locations with no discernable pattern. Figure 29 presents the total chromium results for 2024. SW10 exceeded the PWQO limit in May (0.0015 mg/L). SW23 exceeded at four instances in June (0.00105 mg/L), August (0.00128 mg/L), September (0.0013 mg/L) and October (0.00135 mg/L). SW24 exceeded at three sample events in February (0.00128 mg/L), June (0.0011 mg/L) and September (0.00189 mg/L). Finally, SW15 exceeded three times in May (0.0022 mg/L), September (0.0019 mg/L) and December (0.0015 mg/L).

### Total Cobalt

Figure 30 presents the total cobalt results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. In general, the total cobalt concentrations do not exceed the PWQO (0.0009 mg/L), with elevated concentrations in the summer and winter low flow seasons. Figure 31 presents the total cobalt results for 2024. Two samples exceeded the PWQO at SW21A in February (0.00242 mg/L) and August (0.00094 mg/L). Total cobalt concentration exceeded the PWQO in February (0.00148 mg/L). SW15 exceeded in May (0.00092 mg/L) and September (0.00091 mg/L).

### Total Iron

Figure 32 presents the total iron results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2024. In general, total iron concentrations exceed the PWQO limit (0.03 mg/L), which is consistent with baseline results. Figure 33 presents the total iron results for 2024, where most sample locations exceeded the limit at most sample events. SW20, SW10 and SW21A total iron concentrations were below the PWQO limit in May and SW20 concentration was below the limit in November 2024.

## 4.2. Area Creeks

The 2024 annual average surface water quality data for area creeks, and Rainy River, sample locations is presented in Table 27. For comparison purposes, the annual average surface water quality data for the years 2016 through 2023 are presented in Table 28 to Table 35. 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 creeks water quality by year at each sample location, from creeks and diversions upstream of site to downstream of site. The annual average surface water quality exceeded both the PWQO limit for total aluminum, and the PWQO/CEQG limit for total iron, 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 available in Appendix C which contains copies of the 2024 Monthly Performance Report tables.

### Field pH

Figure 34 presents the field pH levels at all area creeks surface water monitoring sample locations for mid-2015 through 2024. 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 35 presents the field pH levels for 2024, which were all within the PWQO upper and lower pH limits.

### Total Suspended Solids

Figure 36 presents the total suspended solids (TSS) results for all area creeks surface water sample locations for mid-2015 through 2024. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet, the summer low flow season and fall rain season. Figure 37 presents the TSS results for 2024, which were all at or below 20 mg/L except for the sample collected at SW26 in April 2024.

### Total Arsenic

Figure 38 presents the total arsenic results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. 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 39 presents the total arsenic results for 2024, which were all below the PWQO limit.

### Total Copper

Figure 40 presents the total copper results for area creeks surface water monitoring sample locations for mid-2015 to 2024. 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 41 presents the total copper results for 2024. Three elevated results above the PWQO total copper limit (0.005 mg/L) were recorded at SW28A (0.00535 mg/L) in January, SW25 (0.0051 mg/L) in March and SW27 (0.0089 mg/L) in April.

### Total Lead

Figure 42 presents the total lead results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. 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 43 presents the total lead results for 2024. All 2024 results were below the PWQO lower limit (0.001 mg/L) except for samples collected at SW25 (0.00322 mg/L) in March and SW27 (0.0032 mg/L) in April, where the Hardnesses measured were 170 mg/L and 115 mg/L, respectively.

### Total Nickel

Figure 44 presents the total nickel results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. 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 45 presents the total nickel results for 2024.

### Total Phosphorus

Figure 46 presents the total phosphorus results for all area creeks surface water monitoring sample locations for 2017 to 2024. In general, the total phosphorus results are consistent through time with some peaks during summer and winter low flow periods. Figure 47 presents the total phosphorus results for 2024. Due to the laboratory detection limit of 0.05 mg/L, the majority of samples were reported above the PWQO (0.03 mg/L).

### Total Zinc

Figure 48 presents the total zinc results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. 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 49 presents the total zinc results for 2024. Results above the PWQO limit were recorded in the West Creek Diversion upstream at SW26 in February (0.0429 mg/L) and March (0.0296 mg/L) and at Loslo Creek downstream at SW27 in February (0.0350 mg/L) and April (0.0206 mg/L). No exceedances of exceedance of the ECA Receiver trigger value of 0.09 mg/L occurred in 2024.

### Total Mercury

Figure 50 presents the total mercury results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. To date, all total mercury results are below the PWQO limit (0.0002 mg/L) and are often below the method detection limit. Figure 51 presents the total mercury results for 2024.

### Unionized Ammonia

Figure 52 presents the calculated unionized ammonia results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. 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. No exceedances occurred in 2024. Figure 53 presents the calculated unionized ammonia results for 2024.

### Free Cyanide

Figure 54 presents the free cyanide results for all area creeks surface water monitoring sample locations for early 2018 to 2024. To date, all free cyanide results are below the PWQO limit (0.005 mg/L). Figure 55 presents the free cyanide results for 2024.

### Total Aluminum

Figure 56 presents the total aluminum results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. In general, total aluminum concentrations exceed the PWQO limit (0.075 mg/L), which is consistent with baseline results. Figure 57 presents the total aluminum results for 2024, where most sample locations exceeded the limit at most sample events. Elevated Aluminum results were recorded during the spring freshet at all locations except in Clark Creek at SW28A.

### Total Cadmium

Figure 58 presents the total cadmium results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. To date, total cadmium concentrations are below the PWQO limit (0.001 mg/L). Figure 59 presents the total cadmium results for 2024.

### Total Chromium

Figure 60 presents the total chromium results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. To date, total chromium concentrations exceed the PWQO limit (0.001 mg/L) frequently at most surface water locations with no discernable pattern. Figure 61 presents the total chromium results for 2024. SW25 (0.00172 mg/L) and SW26 (0.00147 mg/L) exceeded the PWQO limit in March. SW27 exceeded in April (0.0014 mg/L) and SW26 exceeded in June (0.0013 mg/L).

### Total Cobalt

Figure 62 presents the total cobalt results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. In general, the total cobalt concentrations do not exceed the PWQO (0.0009 mg/L), with elevated concentrations in the summer and winter low flow seasons. Figure 63 presents the total cobalt results for 2024. Two samples exceeded the PWQO at SW25 in February (0.0051 mg/L) and SW29A in October (0.0014 mg/L).

### Total Iron

Figure 64 presents the total iron results for all area creeks surface water monitoring sample locations for mid-2015 to 2024. In general, total iron concentrations exceed the PWQO limit (0.03 mg/L), which is consistent with baseline results. Figure 65 presents the total iron results for 2024, where all surface water samples exceeded the PWQO during the late winter months and start of spring freshet. All surface water locations were below the PWQO in May and rose again during the summer low flow season. SW 02 and SW29A remained the highest at this time, while the remaining SW locations had total iron concentrations below the PWQO limit in the late fall and early winter of 2024.

## **4.3. Rainy River**

The 2024 annual average surface water quality data for the Rainy River sample locations is presented in Table 27. For comparison purposes, the annual average surface water quality data for the years 2016 through 2024 are presented in Table 28 to Table 35, 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 available in Appendix C which contains copies of the 2024 Monthly Performance Report tables.

### Field pH

Figure 66 presents the field pH levels at the two Rainy River surface water monitoring sample locations for mid-2015 through 2024. 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 67 presents the field pH levels for 2024 which were all within the PWQO upper and lower pH limits.

### Total Suspended Solids

Figure 68 presents the total suspended solids (TSS) results for the two Rainy River water sample locations for mid-2015 through 2024. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet. Figure 69 presents the TSS results for 2024, which were all at or below 20 mg/L, with the exception of SW16 (24.6 mg/L) and SW17 (102.0 mg/L) in May.

### Total Arsenic

Figure 70 presents the total arsenic results for the two Rainy River water monitoring sample locations for mid-2015 to 2024. In general, the total arsenic results are below the PWQO limit (0.005 mg/L) with some anomalous results reported in 2016 and 2017. Figure 71 presents the total arsenic results for 2024, which were all below the PWQO limit of 0.005 mg/L.

### Total Copper

Figure 72 presents the total copper results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. In general, the total copper results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the winter and summer low flow seasons. Figure 73 presents the total copper results for 2024, all results were below the PWQO limit.

### Total Lead

Figure 74 presents the total lead results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. 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 75 presents the total lead results for 2024, all results were below the PWQO limit, except for two instances of SW17 in May (0.0019 mg/L) and November (0.0011 mg/L), but the hardness was recorded as 67 mg/L and 39.7 mg/L, respectively.

### Total Nickel

Figure 76 presents the total nickel results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. To date, all total nickel results are below the PWQO limit (0.025 mg/L). Figure 77 presents the total nickel results for 2024.

### Total Phosphorus

Figure 78 presents the total phosphorus results for the two Rainy River surface water monitoring sample locations for 2017 to 2024. In general, the total phosphorus results are below 0.1 mg/L. Figure 79 presents the total phosphorus results for 2024, which were all below 0.15 mg/L. Due to the laboratory detection limit of 0.05 mg/L, all samples were above the PWQO (0.03 mg/L). One elevated result occurred at SW17 (0.115 mg/L) in May.

### Total Zinc

Figure 80 presents the total zinc results for the two Rainy River monitoring sample locations for mid-2015 to 2024. In general, the total zinc results are below the PWQO limit (0.02 mg/L). Figure 81 presents the total zinc results for 2024, all results were below the PWQO limit.

### Total Mercury

Figure 82 presents the total mercury results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. To date, all total mercury results are below the PWQO limit (0.0002 mg/L) and are often below the method detection limit. Figure 83 presents the total mercury results for 2024 which are all below the method detection limit.

### Unionized Ammonia

Figure 84 presents the calculated unionized ammonia results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. To date, all calculated unionized ammonia results are below the PWQO limit (0.02 mg/L). Figure 85 presents the calculated unionized ammonia results for 2024.

### Free Cyanide

Figure 86 presents the free cyanide results for the two Rainy River surface water monitoring sample locations for early 2018 to 2024. To date, all free cyanide results are below the PWQO limit (0.005 mg/L) except for one sample at SW17 in February 2021 (0.0069 mg/L). Figure 87 presents the free cyanide results for 2024, which are all below the limit.

### Total Aluminum

Figure 88 presents the total aluminum results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. In general, total aluminum concentrations exceed the PWQO limit (0.075 mg/L), which is consistent with baseline results. Figure 89 presents the total aluminum results for 2024, where most sample locations exceeded the limit at most sample events. SW16 was below the PWQO in February (0.0666 mg/L) and August (0.0179 mg/L).

### Total Cadmium

Figure 90 presents the total cadmium results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. To date, total cadmium concentrations are below the PWQO limit (0.001 mg/L). Figure 91 presents the total cadmium results for 2024.



### Total Chromium

Figure 92 presents the total chromium results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. To date, total chromium concentrations exceed the PWQO limit (0.001 mg/L) frequently at most surface water locations with no discernable pattern. Figure 93 presents the total chromium results for 2024. SW17 exceeded the PWQO in January (0.0016 mg/L) and May (0.0052 mg/L) and SW 16 exceeded the PWQO in May (0.0014 mg/L).

### Total Cobalt

Figure 94 presents the total cobalt results for the two Rainy River surface water monitoring sample locations for mid-2025 to 2024. In general, the total cobalt concentrations do not exceed the PWQO (0.0009 mg/L), with elevated concentrations in the summer and winter low flow seasons. Figure 95 presents the total cobalt results for 2024. SW17 exceeded the PWQO at in May (0.00166 mg/L).

### Total Iron

Figure 96 presents the total iron results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2024. In general, total iron concentrations exceed the PWQO limit (0.03 mg/L), which is consistent with baseline results. Figure 97 presents the total iron results for 2024, where both surface water samples exceeded the PWQO frequently. More significantly elevated results were recorded in January for SW17 (0.815 mg/L) and in May for both SW16 (0.856 mg/L) and SW17 (3.190 mg/L). The remaining exceedances were below 0.5 mg/L.

## **5. Discharge Water Quality Data and Trends**

Three final discharge points were active in 2024, the final discharge point locations are marked on Figure 1. The discharge locations and dates are summarized below:

- Effluent Discharge Location #1 (EDL1) active for 76 days.
  - April 12, 2024 through May 29, 2024
  - June 5, 2024 through June 6, 2024
  - November 4, 2024 through November 29, 2024
- Effluent Discharge Location #2 (EDL2) active for 61 days.
  - April 12, 2024 through May 29, 2024
  - June 5, 2024 through June 6, 2024
  - November 19, 2024 through November 29, 2024
- Sediment Pond #2 active for 75 days.
  - April 12, 2024 through June 25, 2024

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 available in Appendix C which contains copies of the 2024 Monthly Performance Report tables.

### **5.1. Sediment Pond 2**

In 2024, effluent discharge quality for Sediment Pond 2 final discharge point was compliant with all ECA limits and objectives.

### **5.2. EDL1**

In 2024, effluent discharge quality for EDL1 final discharge point was compliant with all ECA limits and objectives, with the exception of two exceedance events on April 22, 2024, and June 6, 2024. These are outlined in Section 7.

### **5.3. EDL2**

In 2024, effluent discharge quality for EDL2 final discharge point was compliant with all ECA limits and objectives with the exception of one exceedance event on June 6, 2024. This is summarized in Section 7.

## **6. 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 2024, 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 for one instance. The combined 1:1 ratio of EDL1/EDL2 was exceeded by less than 1% on November 10, 2024. The Pinewood River flow, effluent discharge rates and dilution/mixing ratios are described in section 6.2 and 6.3.

As a part of the Monthly Sewage Works Performance reports required under Condition 12(5), Pinewood River flow, effluent discharge rates and dilution/mixing ratios are reported in tabular format. These tables are available in Appendix C which contains copies of the 2024 Monthly Performance Report tables.

### **6.1. Sediment Pond 2**

In 2024, from April 12 to June 25, 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.

### **6.2. EDL1**

Condition 4(10) of the ECA, which requires 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 2024 active discharge, except for November 10, 2024 (1:1.003), which was within the +/-15% acceptable error.

### **6.3. EDL2**

Condition 4(10) of the ECA, which requires 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 2024 active discharge, except for November 10, 2024 (1:1.003), which was within the +/-15% acceptable error.

## 7. Incidents of Non-Compliance

During routine monitoring of water quality results from the ALS Solutions website on May 3, 2024, the New Gold Environment Department discovered that the total copper results for EDL1 collected on April 22, 2024, were over the daily maximum limit of 0.028 mg/L with a sample result of 0.0384 mg/L. On May 29, 2024, while the ECA monthly report was being prepared, an exceedance of free cyanide over the 0.02 mg/L daily limit with a result of 0.028 mg/L was found for the same date and location as the copper exceedance.

On May 13, 2024, it was found that the incorrect NOWL number was in Water Elevation spreadsheet and water level sensors within the Water Discharge Pond were removed during winter. Once the sensor was re-installed in Water Discharge Pond and calibrated, it indicated a Normal Operating Water Level Exceedance at Water Discharge Pond.

Exploration drills were operating south of the open pit outside of site contact water containment system and sumps from the drills were being dewatered into a ditch that should flow to WMRS ditching and the sediment ponds. Environment technicians found on May 24, 2024, that this ditch failed to convey the water as expected and sediment-laden water seeped past the road from the ditch into the environment. All drill water was re-directed back into the Open Pit. The ditch was pumped out, hauled and dumped into the TMA.

On June 6, 2024, water discharged from the Water Management Pond to Effluent Discharge Location #1 and #2 exceeded allowable daily maximum un-ionized ammonia concentration of 0.08 mg/L with concentrations of 0.186 mg/L and 0.164 mg/L, respectively. Since there was only one sample collected at each location, this was also a monthly exceedance. Cobalt exceeded the monthly average limit of 0.0044 mg/L at EDL1 (0.00442 mg/L) and EDL2 (0.00445 mg/L) and the TSS at EDL 2 (15.7 mg/L) exceeded the monthly average of 15 mg/L. EDL1 and EDL2 discharge stopped.

South Dam Seepage Spillway triggered at 5 a.m. on July 2, 2024. due to heavy rainfall. Seepage Collection Pump only capable of pumping 100 m<sup>3</sup>/hour back into TMA due to the height of the dam. Pump needs to be upgraded to 600 m<sup>3</sup>/hour for LOM height of dam and review the rest of the pump capabilities for all seepage ponds against LOM TMA dam height.

An exceedance of the WDP NOWL was found on July 4, 2024, when the level logger was brought online after a software code update. The water level was brought below the NOWL within 24 hours via a diesel pump. New Gold is working on solutions for managing the water level in the WDP by potential changes to the infrastructure. In the meantime, New Gold will implement daily manual surveys of the WDP if the water level sensor is offline in the future, to ensure compliance with the NOWL.

A Hydrovac truck dumped the soil that was in their tank onsite at the designated dumping area and then left site. Enviro witnessed the Hydrovac truck dumping the water from their tank at Korpi Laydown on December 17, 2024. The spill was cleaned up and disposed of in an appropriate location.

## 8. 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 [Garnet.Cornell@newgold.com](mailto:Garnet.Cornell@newgold.com) or (807) 234-8170.

**Table 1: Updated Receiving Surface Water Sampling Locations**

| Sampling Location | Description                                                                      | UTM Coordinates (NAD 83)<br>(Zone, Easting Northing) |
|-------------------|----------------------------------------------------------------------------------|------------------------------------------------------|
| SW20              | Pinewood River - at Heatwole Rd                                                  | 15, 431015, 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, 430039, 5408478                                  |
| 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<br>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                                  |
| SW29A             | McCallum Creek - on the North side of the culverts under highway 600             | 15, 418866, 5413486                                  |
| 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 2024 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)         | 0.0418                  | 0.0554                     | 0.0488                    | 0.0410                      | 0.0423                                 | 0.0429                    | 0.0511                      | 0.0522                                      | 0.35-0.73*                              |
| Ammonia, Unionized (mg/L)     | 0.0010                  | 0.0010                     | 0.0010                    | 0.0010                      | 0.0010                                 | 0.0010                    | 0.0010                      | 0.0010                                      | 0.02* <sup>^1</sup>                     |
| Cyanide, Free (mg/L)          | 0.0020                  | 0.0020                     | 0.0020                    | 0.0020                      | 0.0020                                 | 0.0020                    | 0.0020                      | 0.0020                                      | 0.005 <sup>1</sup>                      |
| Cyanide, Total (mg/L)         | 0.0020                  | 0.0020                     | 0.0020                    | 0.0020                      | 0.0020                                 | 0.0020                    | 0.0020                      | 0.0020                                      | 0.005* <sup>^</sup>                     |
| Field pH (mg/L)               | 7.16                    | 7.46                       | 7.24                      | 7.23                        | 7.29                                   | 7.22                      | 7.30                        | 7.38                                        | 6.5-8.5 <sup>^</sup>                    |
| Total Suspended Solids (mg/L) | 3.84                    | 8.6                        | 5.3                       | 5.8                         | 8.0                                    | 8.8                       | 9.7                         | 16.8                                        | 30 <sup>1</sup>                         |
| Aluminium, Total (mg/L)       | <b>0.129</b>            | <b>0.296</b>               | <b>0.113</b>              | <b>0.142</b>                | <b>0.258</b>                           | <b>0.4</b>                | <b>0.4</b>                  | <b>0.6</b>                                  | 0.075 <sup>^</sup>                      |
| Arsenic, Total (mg/L)         | 0.0011                  | 0.0013                     | 0.0013                    | 0.0013                      | 0.0015                                 | 0.0017                    | 0.0018                      | 0.0016                                      | 0.01 <sup>1</sup>                       |
| Cadmium, Total (mg/L)         | 0.000006                | 0.000010                   | 0.000007                  | 0.000009                    | 0.000012                               | 0.00002                   | 0.00002                     | 0.00002                                     | 0.0001-0.0005 <sup>^</sup>              |
| Chromium, Total (mg/L)        | 0.0005                  | 0.0008                     | <b>0.0005</b>             | 0.0005                      | 0.0007                                 | 0.0010                    | <b>0.0010</b>               | <b>0.0013</b>                               | 0.001* <sup>^</sup>                     |
| Cobalt, Total (mg/L)          | 0.0003                  | 0.0003                     | 0.0006                    | 0.0004                      | 0.0005                                 | 0.0006                    | 0.0006                      | 0.0005                                      | 0.0009 <sup>^</sup>                     |
| Copper, Total (mg/L)          | 0.00081                 | 0.00156                    | 0.00086                   | 0.00129                     | 0.00180                                | 0.0015                    | 0.0017                      | 0.0020                                      | 0.005 <sup>^</sup> , 0.008 <sup>1</sup> |
| Iron, Total (mg/L)            | <b>0.604</b>            | <b>0.687</b>               | <b>0.876</b>              | <b>0.530</b>                | <b>0.729</b>                           | <b>1.0859</b>             | <b>1.1039</b>               | <b>1.0717</b>                               | 0.3* <sup>^</sup>                       |
| Lead, Total (mg/L)            | 0.000096                | 0.000221                   | 0.000113                  | 0.000190                    | 0.000185                               | 0.0003                    | 0.0003                      | 0.0005                                      | 0.008 <sup>1</sup>                      |
| Mercury, Total (mg/L)         | 0.000010                | 0.000010                   | 0.000009                  | 0.000009                    | 0.000010                               | 0.00001                   | 0.00001                     | 0.00001                                     | 0.0002 <sup>^</sup>                     |
| Nickel, Total (mg/L)          | 0.00144                 | 0.00182                    | 0.00154                   | 0.00154                     | 0.00208                                | 0.0022                    | 0.0025                      | 0.0022                                      | 0.025 <sup>1</sup>                      |
| Phosphorus, Total (mg/L)      | 0.056                   | 0.085                      | <b>0.107</b>              | 0.080                       | 0.078                                  | 0.074                     | 0.077                       | <b>0.101</b>                                | 0.1 <sup>1</sup>                        |
| Zinc, Total (mg/L)            | 0.00305                 | 0.00413                    | 0.00317                   | 0.00375                     | 0.00352                                | 0.0041                    | 0.0049                      | 0.0059                                      | 0.02 <sup>^</sup>                       |

\* CEQG

<sup>^</sup> PWQO

<sup>1</sup> ECA SW Trigger Value

**Table 3: Average 2023 Pinewood River Water Quality for Selected Parameters**

| Location                      | SW20                    | SW10                       | SW21A                     | SW22A                       | SW03                                   | SW23                      | SW24                        | SW15                                        |                                         |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|----------------------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------------------------------|
|                               | 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              |
| Description                   |                         |                            |                           |                             |                                        |                           |                             |                                             |                                         |
| Ammonia, Total (mg/L)         | 0.0420                  | 0.0581                     | 0.0781                    | 0.1368                      | 0.1119                                 | 0.1320                    | 0.1700                      | 0.0553                                      | 0.35-0.73*                              |
| Ammonia, Unionized (mg/L)     | 0.0043                  | 0.0048                     | 0.0055                    | 0.0033                      | 0.0077                                 | 0.0040                    | 0.0039                      | 0.0049                                      | 0.02* <sup>1</sup>                      |
| Cyanide, Free (mg/L)          | 0.0015                  | 0.0015                     | 0.0014                    | 0.0016                      | 0.0015                                 | 0.0015                    | 0.0015                      | 0.0015                                      | 0.005 <sup>1</sup>                      |
| Cyanide, Total (mg/L)         | 0.0017                  | 0.0016                     | 0.0014                    | 0.0016                      | 0.0016                                 | 0.0016                    | 0.0016                      | 0.0015                                      | 0.005* <sup>1</sup>                     |
| Field pH (mg/L)               | 7.49                    | 7.56                       | 7.30                      | 7.34                        | 7.43                                   | 7.50                      | 7.54                        | 7.68                                        | 6.5-8.5 <sup>1</sup>                    |
| Total Suspended Solids (mg/L) | 5.66                    | 9.9                        | 10.4                      | 6.9                         | 9.8                                    | 14.5                      | 13.9                        | 14.1                                        | 30 <sup>1</sup>                         |
| Aluminium, Total (mg/L)       | <b>0.166</b>            | <b>0.311</b>               | <b>0.132</b>              | <b>0.165</b>                | <b>0.210</b>                           | <b>0.5</b>                | <b>0.6</b>                  | <b>0.5</b>                                  | 0.075 <sup>1</sup>                      |
| Arsenic, Total (mg/L)         | 0.0012                  | 0.0014                     | 0.0016                    | 0.0017                      | 0.0019                                 | 0.0022                    | 0.0023                      | 0.0017                                      | 0.01 <sup>1</sup>                       |
| Cadmium, Total (mg/L)         | 0.000011                | 0.000015                   | 0.000011                  | 0.000012                    | 0.000013                               | 0.00002                   | 0.00002                     | 0.00002                                     | 0.0001-0.0005 <sup>1</sup>              |
| Chromium, Total (mg/L)        | 0.0006                  | 0.0010                     | <b>0.0015</b>             | 0.0006                      | 0.0007                                 | <b>0.0014</b>             | <b>0.0014</b>               | <b>0.0012</b>                               | 0.001* <sup>1</sup>                     |
| Cobalt, Total (mg/L)          | 0.0005                  | 0.0004                     | <b>0.0010</b>             | 0.0009                      | <b>0.0010</b>                          | <b>0.0010</b>             | <b>0.0011</b>               | 0.0005                                      | 0.0009 <sup>1</sup>                     |
| Copper, Total (mg/L)          | 0.00105                 | 0.00155                    | 0.00081                   | 0.00193                     | 0.00184                                | 0.0022                    | 0.0026                      | 0.0022                                      | 0.005 <sup>1</sup> , 0.008 <sup>1</sup> |
| Iron, Total (mg/L)            | <b>0.824</b>            | <b>0.779</b>               | <b>1.566</b>              | <b>0.948</b>                | <b>1.038</b>                           | <b>1.4918</b>             | <b>1.3668</b>               | <b>1.0351</b>                               | 0.3* <sup>1</sup>                       |
| Lead, Total (mg/L)            | 0.000212                | 0.000399                   | 0.000181                  | 0.000221                    | 0.000182                               | 0.0005                    | 0.0005                      | 0.0005                                      | 0.008 <sup>1</sup>                      |
| Mercury, Total (mg/L)         | 0.000005                | 0.000005                   | 0.000005                  | 0.000005                    | 0.000005                               | 0.00001                   | 0.00001                     | 0.00001                                     | 0.0002 <sup>1</sup>                     |
| Nickel, Total (mg/L)          | 0.00155                 | 0.00189                    | 0.00169                   | 0.00187                     | 0.00229                                | 0.0027                    | 0.0029                      | 0.0022                                      | 0.025 <sup>1</sup>                      |
| Phosphorus, Total (mg/L)      | 0.058                   | 0.075                      | <b>0.156</b>              | <b>0.121</b>                | <b>0.135</b>                           | 0.100                     | 0.089                       | 0.066                                       | 0.1 <sup>1</sup>                        |
| Zinc, Total (mg/L)            | 0.00468                 | 0.00559                    | 0.00417                   | 0.00533                     | 0.00441                                | 0.0056                    | 0.0050                      | 0.0052                                      | 0.02 <sup>1</sup>                       |

\* CEQG

<sup>1</sup> PWQO

<sup>1</sup> ECA SW Trigger Value

Exceedances in bold

**Table 4: Average 2022 Pinewood River Water Quality for Selected Parameters**

| Location                      | SW20                    | SW10                       | SW21A                     | SW22A                       | SW03                                   | SW23                      | SW24                        | SW15                                        |                                         |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|----------------------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------------------------------|
|                               | 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              |
| Description                   |                         |                            |                           |                             |                                        |                           |                             |                                             |                                         |
| 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*                                |
| 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>1</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>1</sup>              |
| Chromium, Total (mg/L)        | 0.0008                  | 0.0007                     | 0.0005                    | 0.0006                      | 0.0007                                 | 0.0009                    | 0.0008                      | 0.0010                                      | 0.001* <sup>1</sup>                     |
| Cobalt, Total (mg/L)          | 0.0003                  | 0.0003                     | 0.0006                    | 0.0005                      | 0.0004                                 | 0.0006                    | 0.0006                      | 0.0005                                      | 0.0009 <sup>1</sup>                     |
| Copper, Total (mg/L)          | 0.00081                 | 0.00104                    | 0.00062                   | 0.00091                     | 0.00163                                | 0.0015                    | 0.0015                      | 0.0017                                      | 0.005 <sup>1</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>1</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>1</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>1</sup>                       |

\* CEQG

Exceedances in bold

<sup>1</sup> PWQO

<sup>1</sup> ECA SW Trigger Value



**Table 5: Average 2021 Pinewood River Water Quality for Selected Parameters**

| Location                      | SW20                    | SW10                       | SW21A                     | SW22A                       | SW03                                   | SW23                      | SW24                        | SW15                                        |                                         |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|----------------------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------------------------------|
|                               | 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              |
| Description                   |                         |                            |                           |                             |                                        |                           |                             |                                             |                                         |
| 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>1</sup> PWQO

<sup>1</sup> ECA SW Trigger Value

Exceedances in bold

**Table 6: Average 2020 Pinewood River Water Quality for Selected Parameters**

| Location                      | SW20                    | SW10                       | SW21A                     | SW22A                       | SW03                                   | SW23                      | SW24                        | SW15                                        |                                         |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|----------------------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------------------------------|
| Description                   | Pinewood at Heatwale 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>1</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>1</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>1</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>1</sup>              |
| Chromium, Total (mg/L)        | 0.0005                  | 0.0005                     | 0.0006                    | 0.0005                      | 0.0009                                 | 0.0014                    | 0.0012                      | 0.0013                                      | 0.001* <sup>1</sup>                     |
| Cobalt, Total (mg/L)          | 0.0004                  | 0.0004                     | 0.0005                    | 0.0005                      | 0.0005                                 | 0.0007                    | 0.0007                      | 0.0006                                      | 0.0009 <sup>1</sup>                     |
| Copper, Total (mg/L)          | 0.00082                 | 0.00094                    | 0.00111                   | 0.00147                     | 0.00325                                | 0.00191                   | 0.00292                     | 0.00239                                     | 0.005 <sup>1</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>1</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>1</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>1</sup>                       |

\* CEQG

<sup>1</sup> PWQO

<sup>1</sup> ECA SW Trigger Value

Exceedances in bold

**Table 7: 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>1</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>1</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>1</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>1</sup>             |
| Chromium, Total (mg/L)        | 0.0010                  | 0.0008                     | 0.0007                    | 0.0011                      | 0.0013                                 | 0.0014                    | 0.0013                      | 0.0011                                      | 0.001* <sup>1</sup>                    |
| Cobalt, Total (mg/L)          | 0.0007                  | 0.0008                     | 0.0007                    | 0.0007                      | 0.0011                                 | 0.0007                    | 0.0008                      | 0.0004                                      | 0.0009 <sup>1</sup>                    |
| Copper, Total (mg/L)          | 0.00103                 | 0.00094                    | 0.00104                   | 0.00182                     | 0.00366                                | 0.00191                   | 0.00200                     | 0.00166                                     | 0.005 <sup>1</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>1</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>1</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>1</sup>                      |

\* CEQG

Exceedances in bold

<sup>1</sup> PWQO

<sup>1</sup> ECA SW Trigger Value

**Table 8: 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

Exceedances in bold

<sup>1</sup> PWQO

<sup>1</sup> ECA SW Trigger Value

**Table 9: 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

Exceedances in bold

<sup>1</sup> PWQO

<sup>1</sup> ECA SW Trigger Value

**Table 10: Average 2016 Pinewood River Water Quality for Selected Parameters**

| Location                      | SW20                    | SW10                       | SW21A                     | SW22A                       | SW03                                   | SW23                      | SW24                        | SW15                                        |                                         |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|----------------------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------------------------------|
| Description                   | Pinewood at Heatwale 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 11: 2024 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) |
|---------------------------------------------------------------------------|-------------|---------------------------|----------------------|-------------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value                                           |             | 0.020                     | 0.005                | 30                            | 0.01                  | 0.008                | 0.008              | 0.025                | 0.1                       |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2024-01-04  | 0.0010                    | 0.0020               | 4.7                           | 0.0008                | 0.0012               | 0.00015            | 0.0015               | 0.0500                    |
|                                                                           | 2024-02-07  |                           |                      |                               |                       |                      |                    |                      |                           |
|                                                                           | 2024-03-06  | 0.0010                    | 0.0020               | 12.4                          | 0.0010                | 0.0030               | 0.00043            | 0.0017               | 0.0930                    |
|                                                                           | 2024-04-03  | 0.0010                    | 0.0020               | 10.9                          | 0.0013                | 0.0032               | 0.00079            | 0.0017               | 0.0940                    |
|                                                                           | 2024-05-07  | 0.0010                    | 0.0020               | 5.8                           | 0.0008                | 0.0014               | 0.00008            | 0.0016               | 0.0500                    |
|                                                                           | 2024-06-04  | 0.0010                    | 0.0020               | 7.4                           | 0.0016                | 0.0017               | 0.00018            | 0.0017               | 0.0840                    |
|                                                                           | 2024-07-10  | 0.0010                    | 0.0020               | 3.0                           | 0.0021                | 0.0005               | 0.00006            | 0.0017               | 0.1250                    |
|                                                                           | 2024-08-07  | 0.0010                    | 0.0020               | 3.0                           | 0.0019                | 0.0005               | 0.00005            | 0.0014               | 0.0740                    |
|                                                                           | 2024-09-04  | 0.0010                    | 0.0020               | 3.0                           | 0.0017                | 0.0005               | 0.00005            | 0.0013               | 0.1070                    |
|                                                                           | 2024-10-01  | 0.0010                    | 0.0020               | 3.0                           | 0.0016                | 0.0005               | 0.00006            | 0.0016               | 0.0980                    |
|                                                                           | 2024-11-05  | 0.0010                    | 0.0020               | 4.2                           | 0.0008                | 0.0005               | 0.00009            | 0.0013               | 0.0500                    |
|                                                                           | 2024-12-03  | 0.0010                    | 0.0020               | 6.1                           | 0.0008                | 0.0011               | 0.00016            | 0.0015               | 0.0500                    |

Italicized results denote <DL

**Table 12: 2024 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) |
|-----------------------------------------|-------------|---------------------------|----------------------|-------------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value         |             | 0.020                     | 0.005                | 30                            | 0.01                  | 0.008                | 0.008              | 0.025                | 0.1                       |
| SW24 -Pinewood River downstream of EDL1 | 2024-01-04  |                           |                      |                               |                       |                      |                    |                      |                           |
|                                         | 2024-02-06  | 0.0010                    | 0.002                | 11.10                         | 0.00151               | 0.00179              | 0.000419           | 0.00271              | 0.087                     |
|                                         | 2024-03-06  |                           |                      |                               |                       |                      |                    |                      |                           |
|                                         | 2024-04-03  |                           |                      |                               |                       |                      |                    |                      |                           |
|                                         | 2024-05-07  | 0.0010                    | 0.002                | 10.20                         | 0.00085               | 0.0016               | 0.000191           | 0.00172              | 0.05                      |
|                                         | 2024-06-04  | 0.0010                    | 0.002                | 11.20                         | 0.00154               | 0.00176              | 0.00035            | 0.00214              | 0.065                     |
|                                         | 2024-07-09  | 0.0010                    | 0.002                | 10.00                         | 0.00204               | 0.00124              | 0.000321           | 0.00211              | 0.08                      |
|                                         | 2024-08-06  | 0.0010                    | 0.002                | 8                             | 0.00286               | 0.00106              | 0.00032            | 0.00237              | 0.098                     |
|                                         | 2024-09-03  | 0.0010                    | 0.002                | 16                            | 0.00277               | 0.00254              | 0.00064            | 0.00311              | 0.115                     |
|                                         | 2024-10-01  | 0.0010                    | 0.002                | 7.60                          | 0.00227               | 0.00196              | 0.000419           | 0.00252              | 0.1                       |
|                                         | 2024-11-05  | 0.0010                    | 0.0023               | 9.40                          | 0.00144               | 0.00158              | 0.0002             | 0.00382              | 0.05                      |
|                                         | 2024-12-03  | 0.0010                    | 0.002                | 4.10                          | 0.00108               | 0.00133              | 0.000135           | 0.00197              | 0.05                      |

Italicized results denote <DL

**Table 13: 2023 ECA Surface Water Trigger Values for Surface Water Location SW22A**

| Location                                                                  | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) |
|---------------------------------------------------------------------------|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value                                           |             | 0.020                     | 0.005                | 30                          | 0.01                  | 0.008                | 0.008              | 0.025                | 0.1                       |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2023-01-09  |                           |                      |                             |                       |                      |                    |                      |                           |
|                                                                           | 2023-02-10  | 0.0100                    | 0.0004               | 11.0                        | 0.0015                | 0.0011               | 0.0009             | 0.0019               | 0.2320                    |
|                                                                           | 2023-03-08  | 0.0100                    | 0.0007               | 14.5                        | 0.0018                | 0.0009               | 0.0002             | 0.0019               | 0.3240                    |
|                                                                           | 2023-04-11  | 0.0100                    | 0.0009               | 13.0                        | 0.0009                | 0.0022               | 0.0008             | 0.0017               | 0.1140                    |
|                                                                           | 2023-05-02  | 0.0010                    | 0.0004               | 8.5                         | 0.0008                | 0.0015               | 0.0001             | 0.0018               | 0.0150                    |
|                                                                           | 2023-06-06  | 0.0025                    | 0.0020               | 6.6                         | 0.0023                | 0.0023               | 0.0001             | 0.0023               | 0.1260                    |
|                                                                           | 2023-07-08  | 0.0010                    | 0.0020               | 3.8                         | 0.0022                | 0.0005               | 0.0001             | 0.0017               |                           |
|                                                                           | 2023-08-05  | 0.0010                    | 0.0020               | 3.8                         | 0.0018                | 0.0009               | 0.0001             | 0.0015               | 0.0690                    |
|                                                                           | 2023-09-06  | 0.0010                    | 0.0020               | 5.9                         | 0.0037                | 0.0009               | 0.0001             | 0.0020               | 0.1980                    |
|                                                                           | 2023-10-04  | 0.0010                    | 0.0020               | 3.9                         | 0.0024                | 0.0084               | 0.0002             | 0.0017               | 0.1350                    |
|                                                                           | 2023-11-12  | 0.0010                    | 0.0020               | 4.0                         | 0.0011                | 0.0022               | 0.0001             | 0.0022               | 0.0500                    |
|                                                                           | 2023-12-11  | 0.0010                    | 0.0020               | 3.4                         | 0.0010                | 0.0008               | 0.0001             | 0.0017               | 0.0540                    |

Italicized results denote <DL

**Table 14: 2023 ECA Surface Water Trigger Values for Surface Water Location SW24**

| Location                                | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) |
|-----------------------------------------|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value         |             | 0.020                     | 0.005                | 30                          | 0.01                  | 0.008                | 0.008              | 0.025                | 0.1                       |
| SW24 -Pinewood River downstream of EDL1 | 2023-01-08  | 0.0100                    | 0.0001               | 7.50                        | 0.00113               | 0.00084              | 0.00024            | 0.00208              | 0.08                      |
|                                         | 2023-02-07  | 0.0010                    | 0.0013               | 12.00                       | 0.00139               | 0.00118              | 0.00047            | 0.00252              | 0.1                       |
|                                         | 2023-03-07  | 0.0100                    | 0.0007               | 39.50                       | 0.00202               | 0.00235              | 0.00098            | 0.00406              | 0.17                      |
|                                         | 2023-05-02  | 0.0100                    | 0.0006               | 14.00                       | 0.00086               | 0.00162              | 0.00024            | 0.00174              | 0.01                      |
|                                         | 2023-06-06  | 0.0010                    | 0.002                | 21.90                       | 0.0022                | 0.00204              | 0.000443           | 0.00274              | 0.094                     |
|                                         | 2023-07-09  | 0.0010                    | 0.0021               | 13.20                       | 0.00323               | 0.00211              | 0.00084            | 0.00351              |                           |
|                                         | 2023-08-06  | 0.0010                    | 0.0028               | 10.30                       | 0.00405               | 0.00294              | 0.00103            | 0.00411              | 0.136                     |
|                                         | 2023-09-05  | 0.0010                    | 0.002                | 6                           | 0.005                 | 0.00249              | 0.000863           | 0.00387              | 0.167                     |
|                                         | 2023-10-03  | 0.0010                    | 0.002                | 8                           | 0.00448               | 0.00291              | 0.00064            | 0.00343              | 0.136                     |
|                                         | 2023-11-08  | 0.0017                    | 0.002                | 11.30                       | 0.00114               | 0.00153              | 0.000215           | 0.00232              | 0.05                      |
|                                         | 2023-11-12  | 0.0102                    | 0.002                | 5.70                        | 0.00101               | 0.00155              | 0.000132           | 0.00238              | 0.05                      |
|                                         | 2023-12-08  | 0.0010                    | 0.002                | 21.50                       | 0.00109               | 0.00238              | 0.000413           | 0.00256              | 0.05                      |

Italicized results denote <DL



**Table 15: 2022 ECA Surface Water Trigger Values for Surface Water Location SW22A**

| Location                                                                  | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) |
|---------------------------------------------------------------------------|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value                                           |             | <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 16: 2022 ECA Surface Water Trigger Values for Surface Water Location SW24**

| Location                                | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) |
|-----------------------------------------|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value         |             | <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 17: 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 18: 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 19: 2020 ECA Surface Water Trigger Values for Surface Water Location SW22A**

| Location                                                                  | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---------------------------------------------------------------------------|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value                                           |             | <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 20: 2020 ECA Surface Water Trigger Values for Surface Water Location SW24**

| Location                                 | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|------------------------------------------|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value          |             | <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 21: 2019 ECA Surface Water Trigger Values for Surface Water Location SW22A**

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

*Italicized results denote <DL*

**Table 22: 2019 ECA Surface Water Trigger Values for Surface Water Location SW24**

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

*Italicized results denote <DL*

**Table 23: 2018 ECA Surface Water Trigger Values for Surface Water Location SW22A**

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

*Italicized results denote <DL*

**Table 24: 2018 ECA Surface Water Trigger Values for Surface Water Location SW24**

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

*Italicized results denote <DL*

**Table 25: 2017 ECA Surface Water Trigger Values for Surface Water Location SW22A**

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

*Italicized results denote <DL*

**Table 26: 2016 ECA Surface Water Trigger Values for Surface Water Location SW22A**

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

*Italicized results denote <DL*

**Table 27: Average 2024 Area Creek and Rainy River Water Quality for Selected Parameters**

| Location                      | SW28A                                                  | SW02                     | SW25                                       | SW26                                       | SW27                                                      | SW29A                                     | 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)         | 0.019                                                  | 0.106                    | 0.025                                      | 0.027                                      | 0.032                                                     | 0.063                                     | 0.010                                       | 0.012                                         | 0.35-0.73*                 |
| Ammonia, Unionized (mg/L)     | 0.0010                                                 | 0.0010                   | 0.0010                                     | 0.0010                                     | 0.0010                                                    | 0.0010                                    | 0.0010                                      | 0.0010                                        | 0.02*^                     |
| Cyanide, Free (mg/L)          | 0.0020                                                 | 0.0020                   | 0.0020                                     | 0.0020                                     | 0.0020                                                    | 0.0020                                    | 0.0020                                      | 0.0020                                        |                            |
| Cyanide, Total (mg/L)         | 0.0020                                                 | 0.0020                   | 0.0020                                     | 0.0020                                     | 0.0022                                                    | 0.0020                                    | 0.0020                                      | 0.0020                                        | 0.005*^                    |
| Field pH (mg/L)               | 7.51                                                   | 6.91                     | 7.48                                       | 7.62                                       | 7.31                                                      | 6.99                                      | 7.20                                        | 7.25                                          | 6.5-8.5^                   |
| Total Suspended Solids (mg/L) | 4.2                                                    | 4.8                      | 4.3                                        | 5.9                                        | 4.3                                                       | 6.5                                       | 9.7                                         | 14.0                                          |                            |
| Aluminium, Total (mg/L)       | <b>0.083</b>                                           | <b>0.075</b>             | <b>0.233</b>                               | <b>0.201</b>                               | <b>0.165</b>                                              | <b>0.111</b>                              | <b>0.191</b>                                | <b>0.362</b>                                  | 0.075^                     |
| Arsenic, Total (mg/L)         | 0.0010                                                 | 0.0010                   | 0.0013                                     | 0.0013                                     | 0.0013                                                    | 0.0010                                    | 0.0005                                      | 0.0007                                        | 0.05*                      |
| Cadmium, Total (mg/L)         | 0.000006                                               | 0.000006                 | 0.000014                                   | 0.000010                                   | 0.000013                                                  | 0.000009                                  | 0.000010                                    | 0.000017                                      | 0.0001-0.0005^             |
| Chromium, Total (mg/L)        | 0.0005                                                 | 0.0005                   | 0.0007                                     | 0.0007                                     | 0.0006                                                    | 0.0005                                    | 0.0007                                      | <b>0.0010</b>                                 | 0.001*^                    |
| Cobalt, Total (mg/L)          | 0.0002                                                 | 0.0004                   | 0.0007                                     | 0.0002                                     | 0.0002                                                    | 0.0005                                    | 0.0002                                      | 0.0003                                        | 0.0009^                    |
| Copper, Total (mg/L)          | 0.00111                                                | 0.00067                  | 0.00182                                    | 0.00183                                    | 0.00194                                                   | 0.00084                                   | 0.00159                                     | 0.00153                                       | 0.002-0.004*               |
| Iron, Total (mg/L)            | <b>0.334</b>                                           | <b>0.694</b>             | <b>0.571</b>                               | <b>0.439</b>                               | <b>0.384</b>                                              | <b>0.649</b>                              | <b>0.304</b>                                | <b>0.570</b>                                  | 0.3*^                      |
| Lead, Total (mg/L)            | 0.000074                                               | 0.000133                 | 0.000488                                   | 0.000214                                   | 0.000398                                                  | 0.000104                                  | 0.000157                                    | 0.000428                                      | 0.001-0.005*^              |
| Mercury, Total (mg/L)         | 0.000009                                               | 0.000009                 | 0.000010                                   | 0.000009                                   | 0.000009                                                  | 0.000009                                  | 0.000005                                    | 0.000005                                      | 0.0002^                    |
| Nickel, Total (mg/L)          | 0.00103                                                | 0.00066                  | 0.00155                                    | 0.00147                                    | 0.00149                                                   | 0.00121                                   | 0.00095                                     | 0.00131                                       | 0.025*^                    |
| Phosphorus, Total (mg/L)      | 0.050                                                  | 0.050                    | 0.064                                      | 0.050                                      | 0.053                                                     | 0.056                                     | 0.050                                       | 0.055                                         |                            |
| Zinc, Total (mg/L)            | 0.00303                                                | 0.00319                  | 0.01296                                    | 0.01268                                    | 0.01068                                                   | 0.00396                                   | 0.00398                                     | 0.00433                                       | 0.02^                      |

\* CEQG

^ PWQO

**Table 28: Average 2023 Area Creek and Rainy River Water Quality for Selected Parameters**

| Location                      | SW28A                                                  | SW02                     | SW25                                       | SW26                                       | SW27                                                      | SW29A                                     | 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)         | 0.055                                                  | 0.085                    | 0.037                                      | 0.028                                      | 0.033                                                     | 0.017                                     | 0.020                                       | 0.014                                         | 0.35-0.73*                 |
| Ammonia, Unionized (mg/L)     | 0.0031                                                 | 0.0093                   | 0.0038                                     | 0.0041                                     | 0.0042                                                    | 0.0011                                    | 0.0051                                      | 0.0048                                        | 0.02*^                     |
| Cyanide, Free (mg/L)          | 0.0015                                                 | 0.0015                   | 0.0016                                     | 0.0014                                     | 0.0014                                                    | 0.0021                                    | 0.0015                                      | 0.0015                                        |                            |
| Cyanide, Total (mg/L)         | 0.0016                                                 | 0.0016                   | 0.0017                                     | 0.0016                                     | 0.0015                                                    | 0.0020                                    | 0.0013                                      | 0.0015                                        | 0.005*^                    |
| Field pH (mg/L)               | 7.69                                                   | 7.26                     | 7.58                                       | 7.77                                       | 7.44                                                      | 7.29                                      | 7.59                                        | 7.81                                          | 6.5-8.5^                   |
| Total Suspended Solids (mg/L) | 5.1                                                    | 5.2                      | 19.2                                       | 9.4                                        | 6.6                                                       | 3.0                                       | 11.0                                        | 10.3                                          |                            |
| Aluminium, Total (mg/L)       | <b>0.081</b>                                           | <b>0.090</b>             | <b>0.450</b>                               | <b>0.330</b>                               | <b>0.239</b>                                              | 0.072                                     | <b>0.226</b>                                | <b>0.267</b>                                  | 0.075^                     |
| Arsenic, Total (mg/L)         | 0.0012                                                 | 0.0011                   | 0.0012                                     | 0.0014                                     | 0.0014                                                    | 0.0006                                    | 0.0005                                      | 0.0006                                        | 0.05*                      |
| Cadmium, Total (mg/L)         | 0.000010                                               | 0.000011                 | 0.000014                                   | 0.000012                                   | 0.000011                                                  | 0.000006                                  | 0.000014                                    | 0.000011                                      | 0.0001-0.0005^             |
| Chromium, Total (mg/L)        | 0.0005                                                 | 0.0005                   | <b>0.0011</b>                              | 0.0010                                     | 0.0008                                                    | 0.0005                                    | 0.0007                                      | 0.0008                                        | 0.001*^                    |
| Cobalt, Total (mg/L)          | 0.0004                                                 | 0.0004                   | 0.0004                                     | 0.0003                                     | 0.0003                                                    | 0.0002                                    | 0.0002                                      | 0.0002                                        | 0.0009^                    |
| Copper, Total (mg/L)          | 0.00083                                                | 0.00058                  | 0.00200                                    | 0.00186                                    | 0.00156                                                   | 0.00112                                   | 0.00172                                     | 0.00125                                       | 0.002-0.004*               |
| Iron, Total (mg/L)            | <b>0.533</b>                                           | <b>0.673</b>             | <b>0.867</b>                               | <b>0.633</b>                               | <b>0.586</b>                                              | <b>0.311</b>                              | <b>0.322</b>                                | <b>0.408</b>                                  | 0.3*^                      |
| Lead, Total (mg/L)            | 0.000143                                               | 0.000900                 | 0.000652                                   | 0.000336                                   | 0.000237                                                  | 0.000050                                  | 0.000226                                    | 0.000230                                      | 0.001-0.005*^              |
| Mercury, Total (mg/L)         | 0.000005                                               | 0.000005                 | 0.000005                                   | 0.000005                                   | 0.000005                                                  | 0.000005                                  | 0.000005                                    | 0.000005                                      | 0.0002^                    |
| Nickel, Total (mg/L)          | 0.00124                                                | 0.00071                  | 0.00170                                    | 0.00156                                    | 0.00144                                                   | 0.00097                                   | 0.00104                                     | 0.00103                                       | 0.025*^                    |
| Phosphorus, Total (mg/L)      | 0.039                                                  | 0.038                    | 0.051                                      | 0.044                                      | 0.062                                                     | 0.050                                     | 0.032                                       | 0.037                                         |                            |
| Zinc, Total (mg/L)            | 0.00299                                                | 0.00462                  | 0.00941                                    | <b>0.02307</b>                             | 0.01338                                                   | 0.00300                                   | 0.00403                                     | 0.00349                                       | 0.02^                      |

\* CEQG

^ PWQO



**Table 29: 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/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)         | 0.039                                                  | 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 30: Average 2021 Area Creek and Rainy River Water Quality for Selected Parameters**

| Location                      | SW28A                                                  | SW02                     | SW25                                       | SW26                                       | SW27                                                      | SW29                                      | SW16                                        | SW17                                          |                            |
|-------------------------------|--------------------------------------------------------|--------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------------|----------------------------|
|                               | 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 |
| Description                   |                                                        |                          |                                            |                                            |                                                           |                                           |                                             |                                               |                            |
| 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 31: 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/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)         | 0.042                                                  | 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 32: 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/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)         | 0.027                                                   | 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

^ PWQO

Exceedances in bold

**Table 33: 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

Exceedances in bold

^ PWQO

**Table 34: 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/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)         | 0.036                                                  | 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 35: 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/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)         | 0.040                                                  | 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 1: RRM Site Plan with Discharge and Surface Water Monitoring Locations 2024

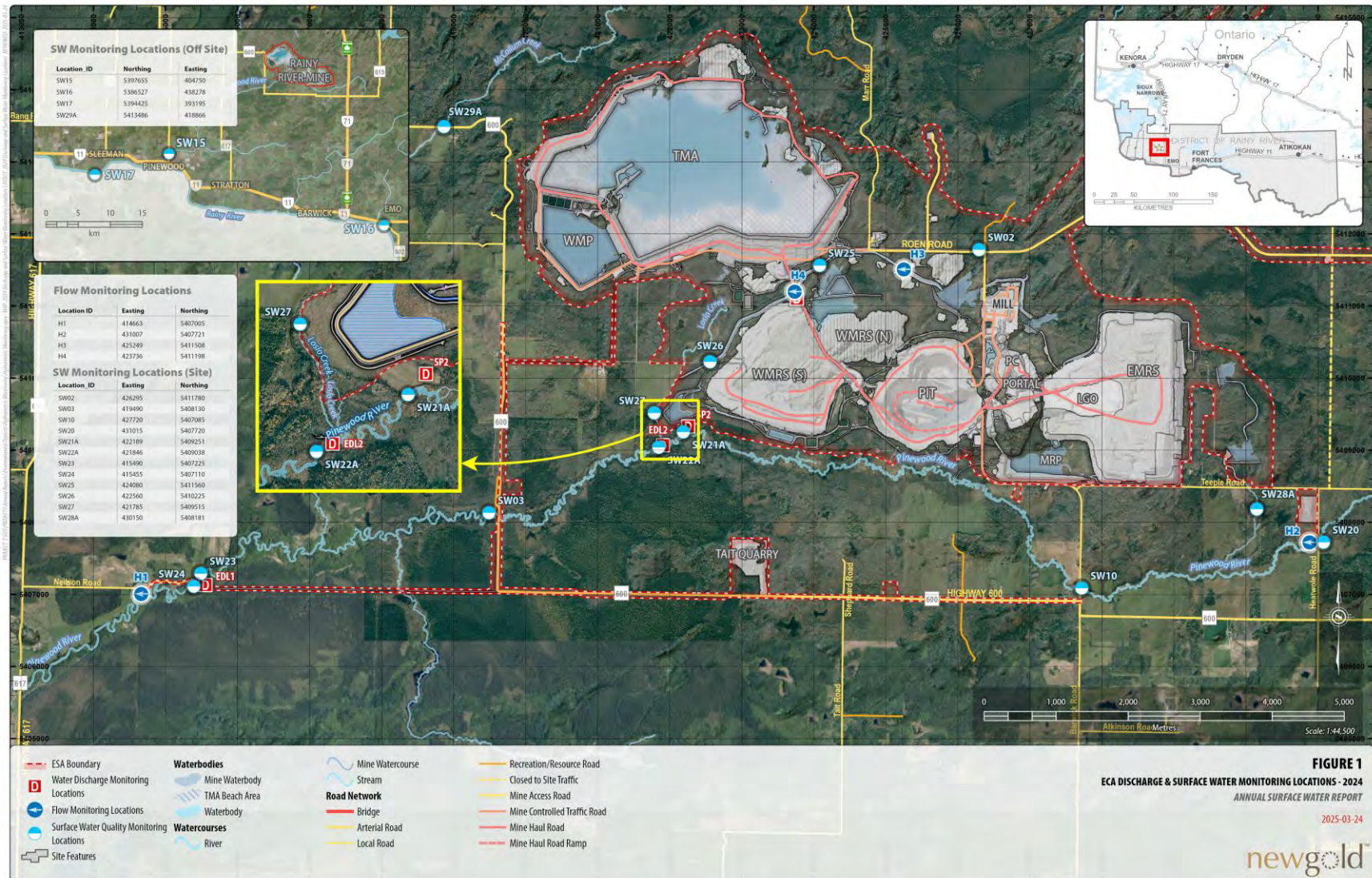




Figure 2: Rainy River Mine, Field pH Levels in Pinewood River 2015-2024

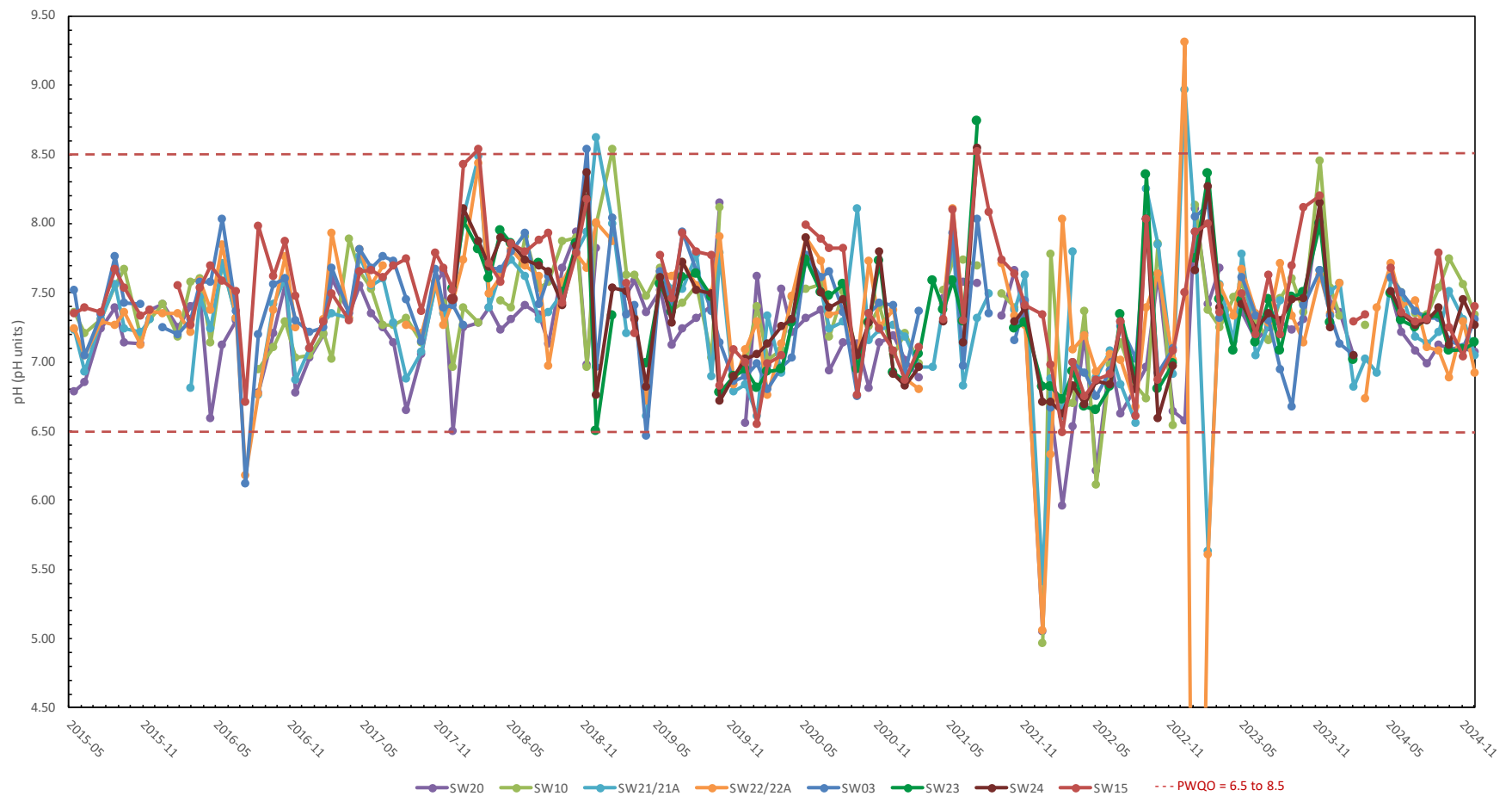


Figure 3: Rainy River Mine, Field pH Levels in Pinewood River 2024

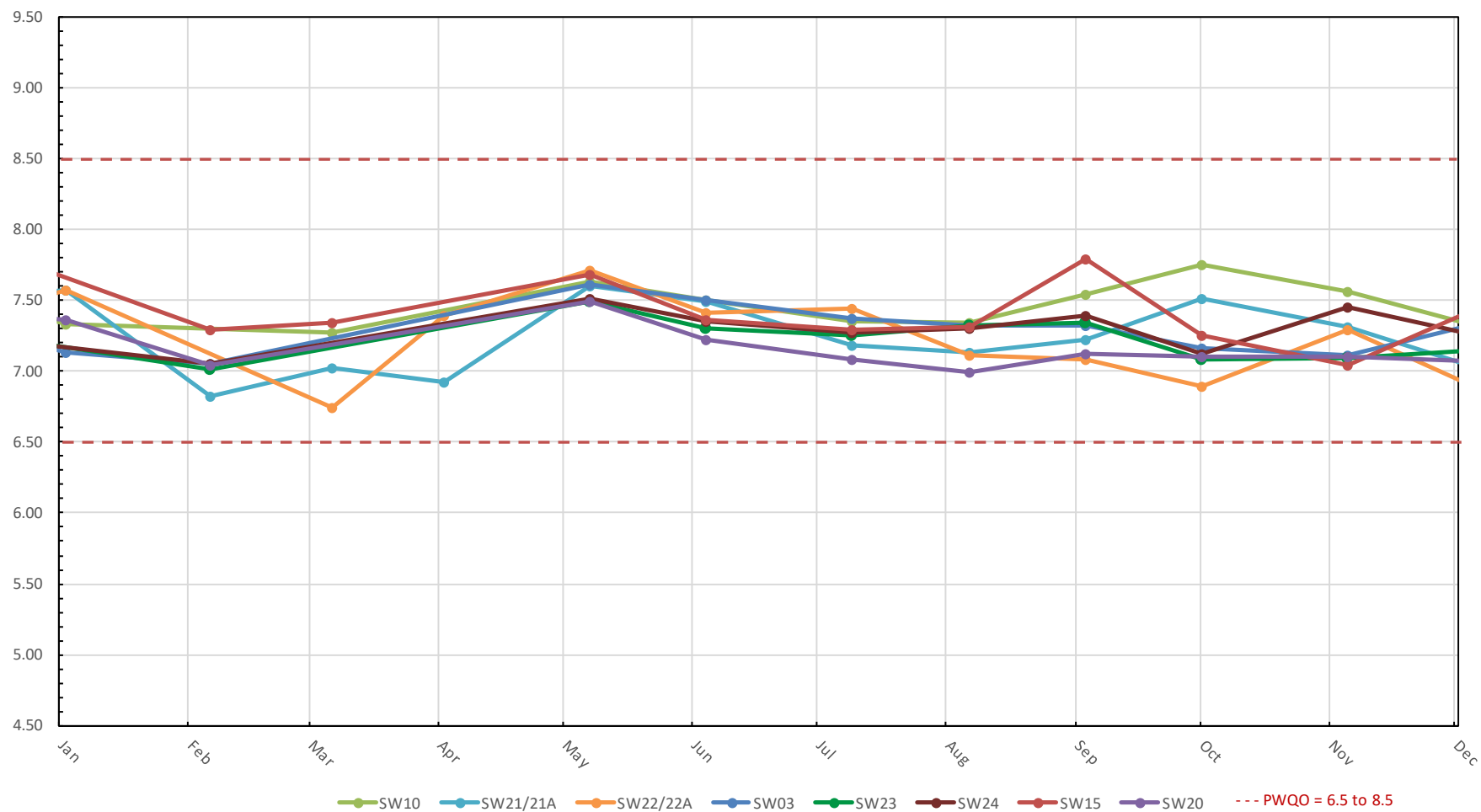


Figure 4: Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2015-2024

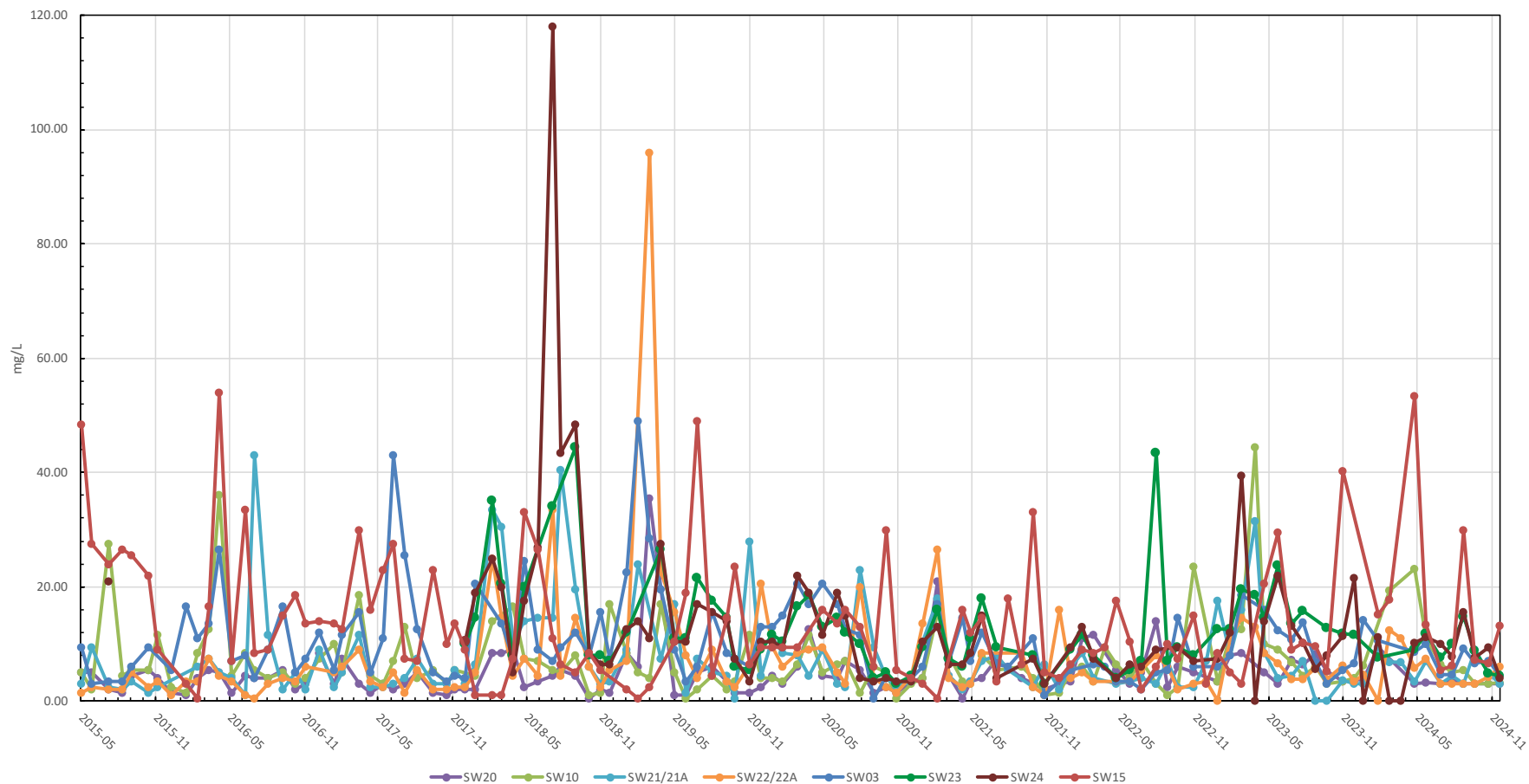


Figure 5: Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2024

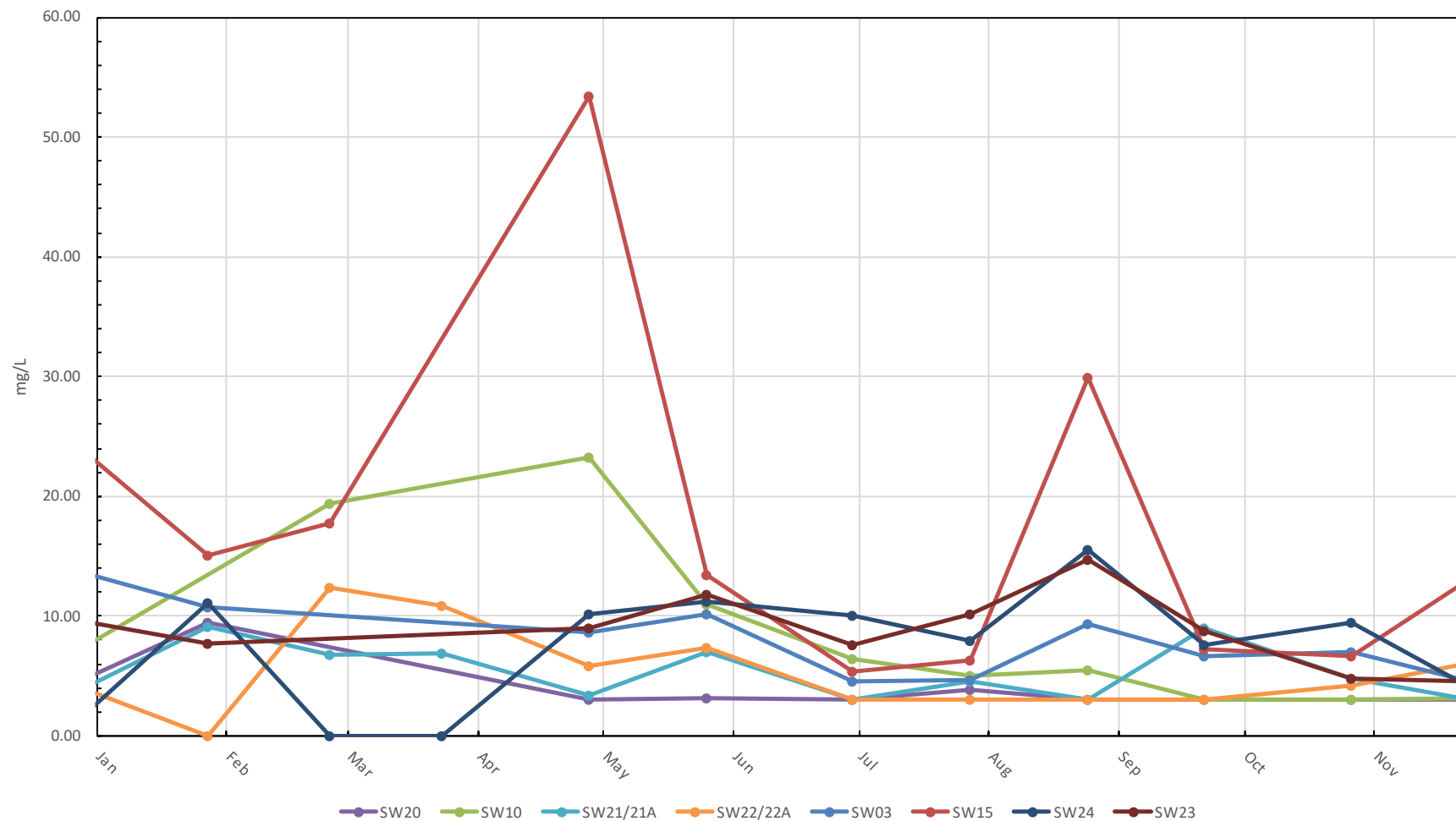


Figure 6: Rainy River Mine, Total Arsenic in Pinewood River 2015-2024

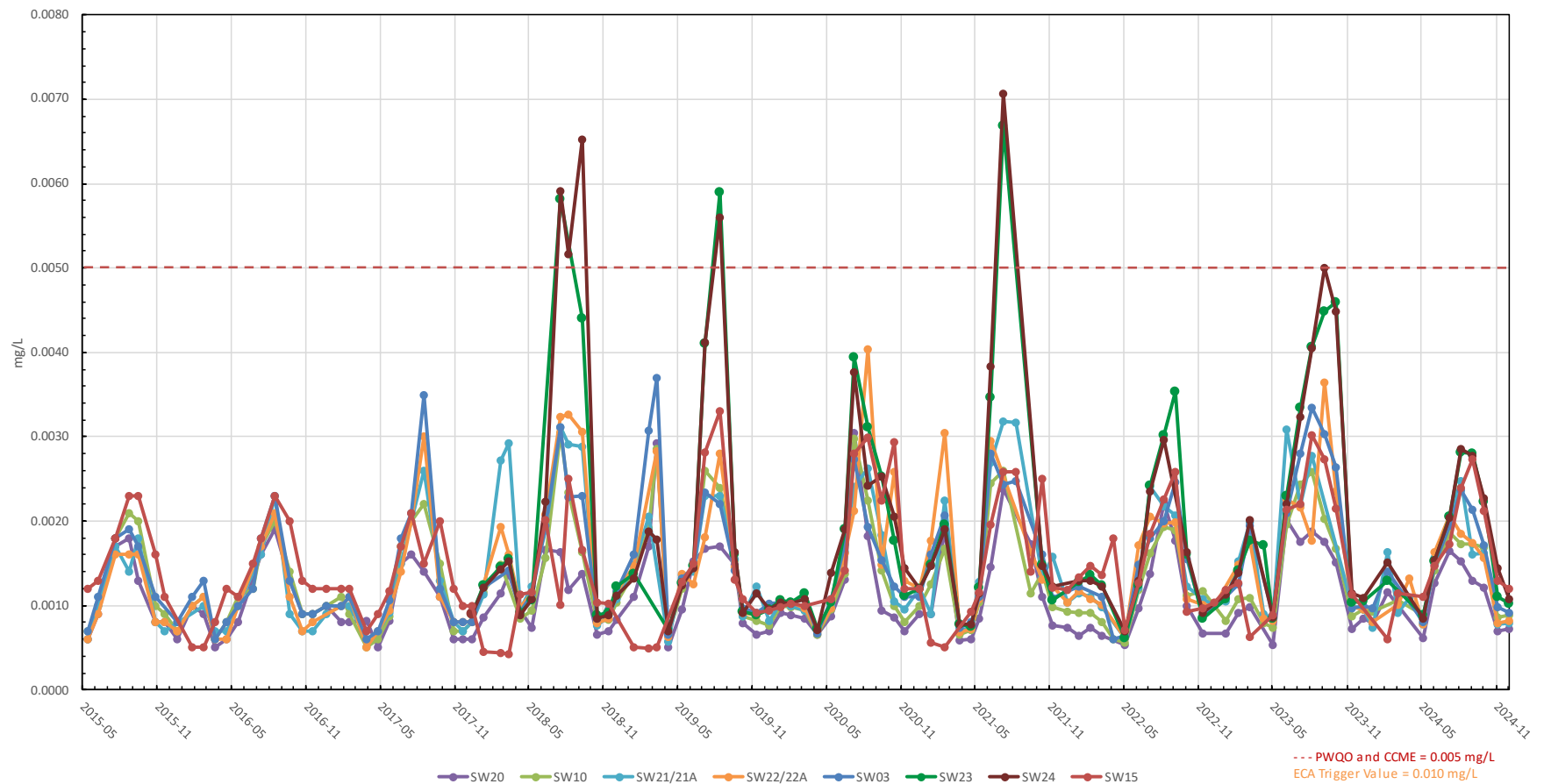


Figure 7: Rainy River Mine, Total Arsenic in Pinewood River 2024

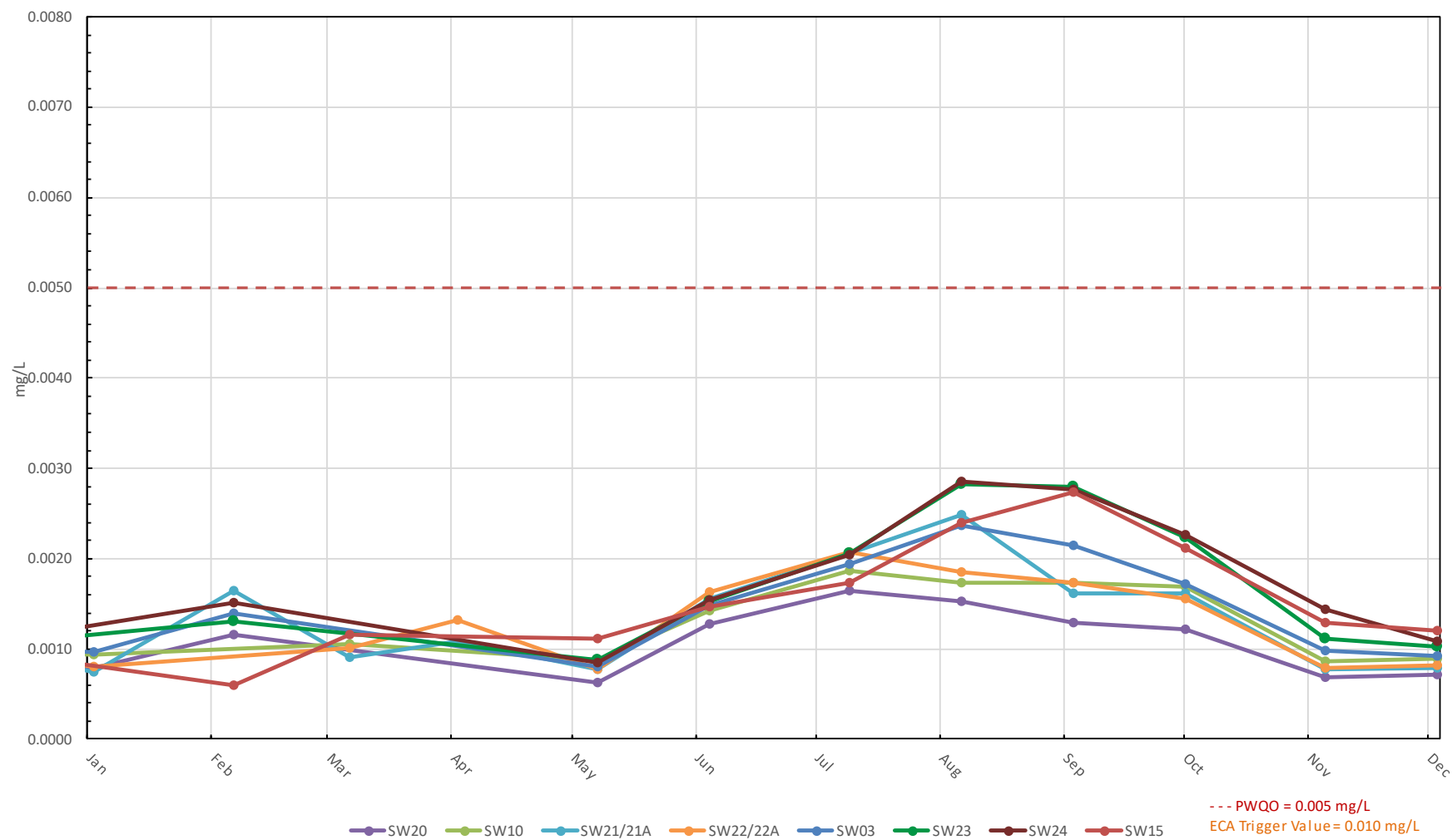


Figure 8: Rainy River Mine, Total Copper in Pinewood River 2015-2024

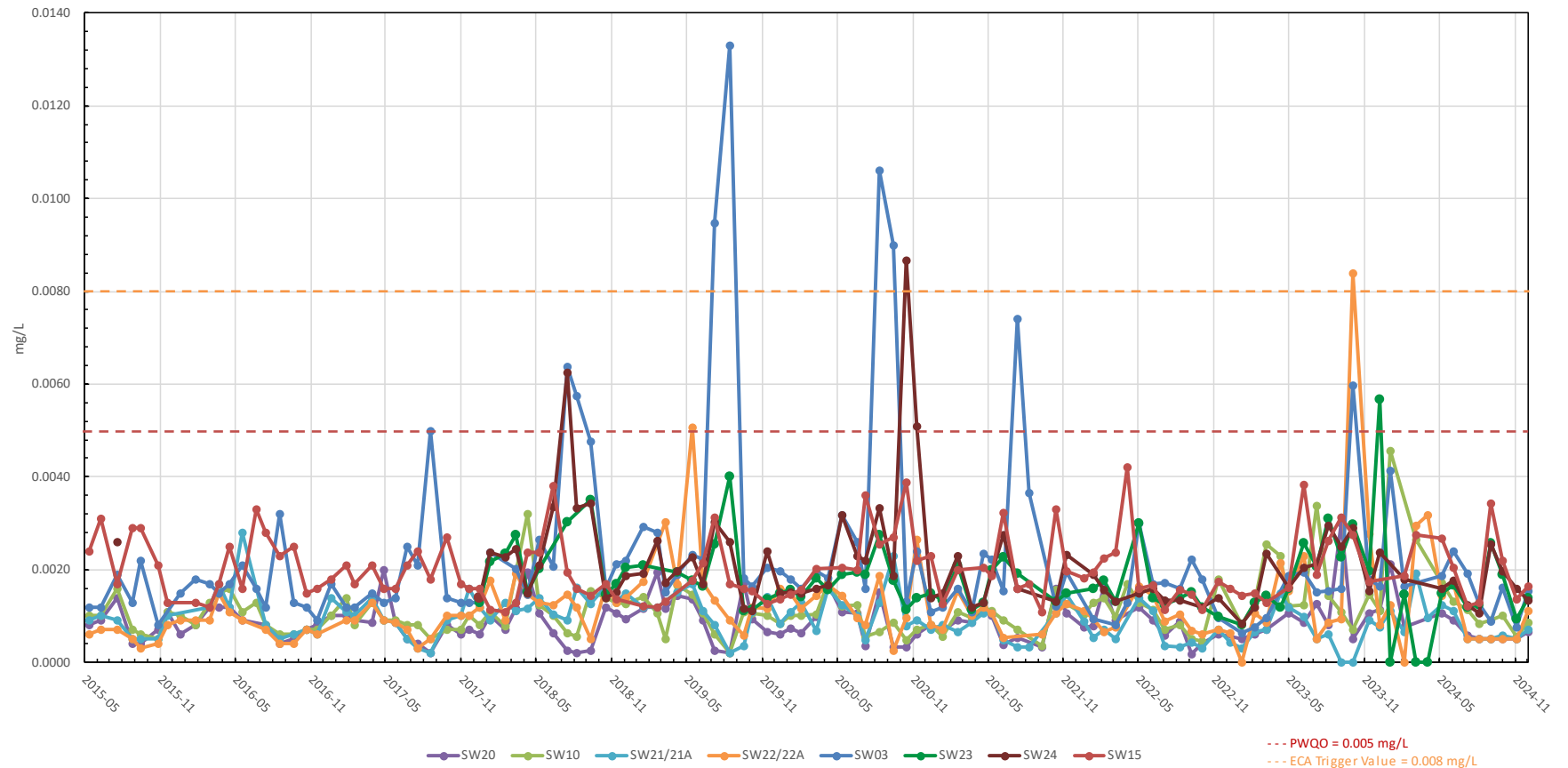


Figure 9: Rainy River Mine, Total Copper in Pinewood River 2024

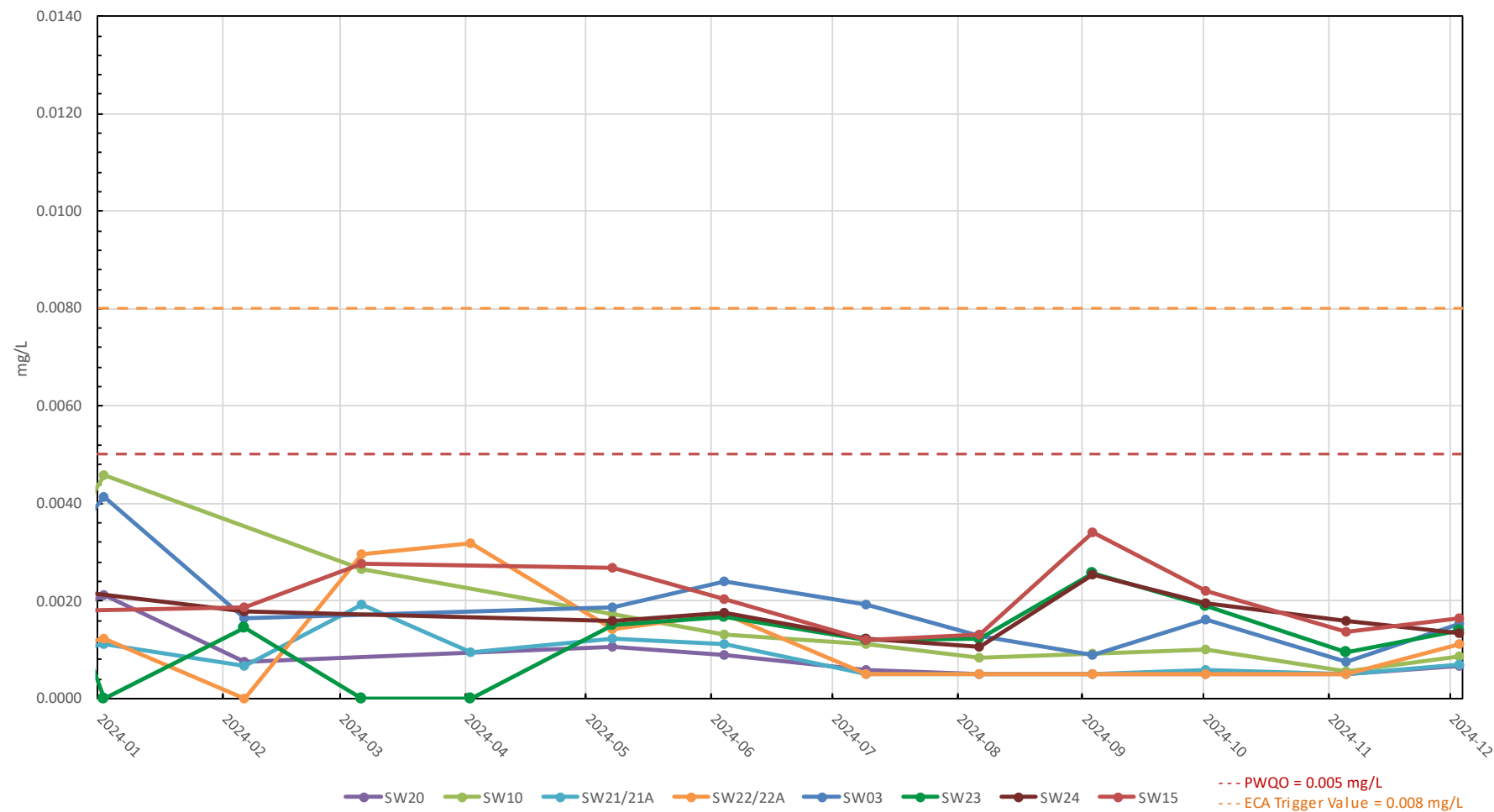




Figure 10: Rainy River Mine, Total Lead in Pinewood River 2015-2024

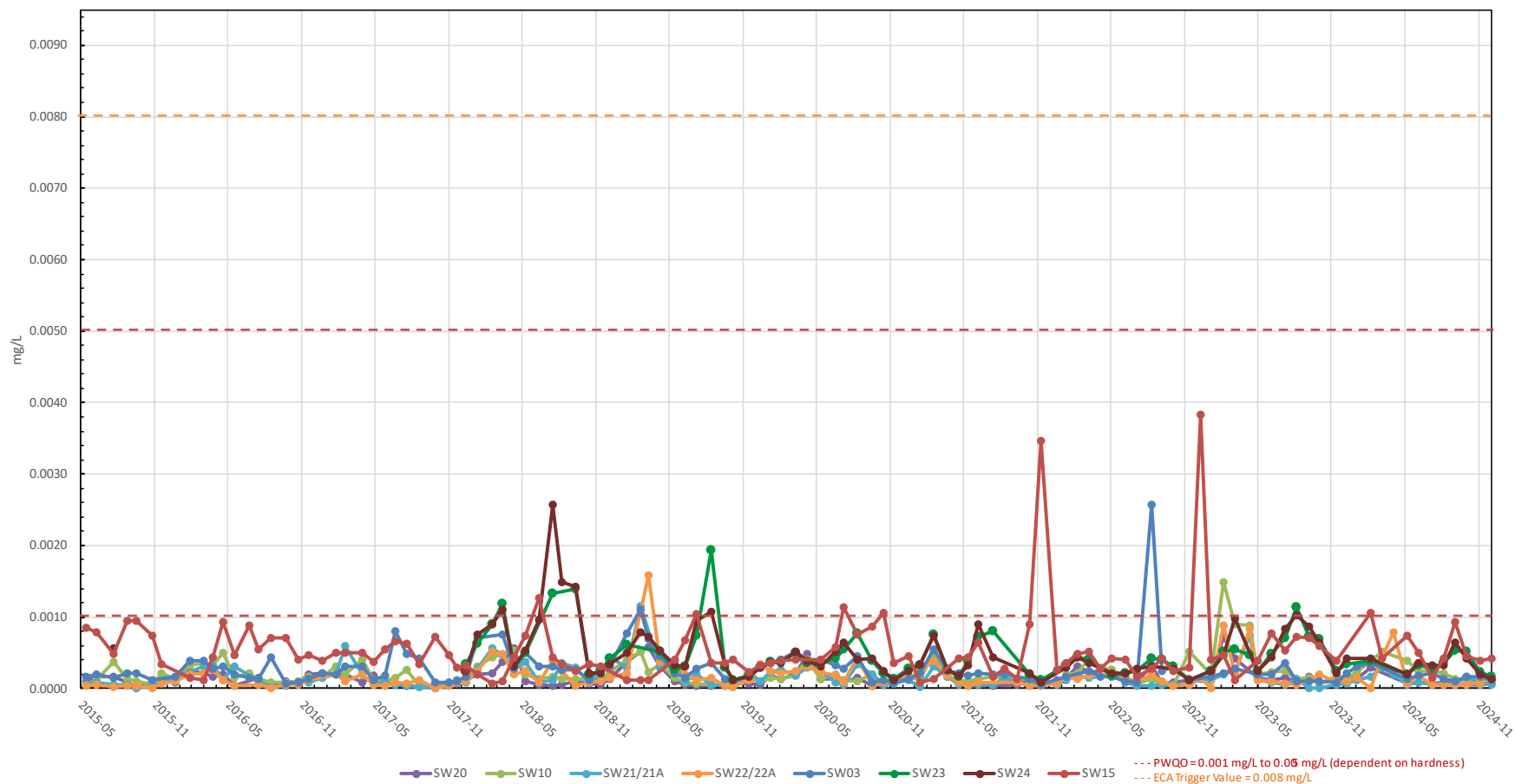


Figure 11: Rainy River Mine, Total Lead in Pinewood River 2024



Figure 12: Rainy River Mine, Total Nickel in Pinewood River 2015-2024

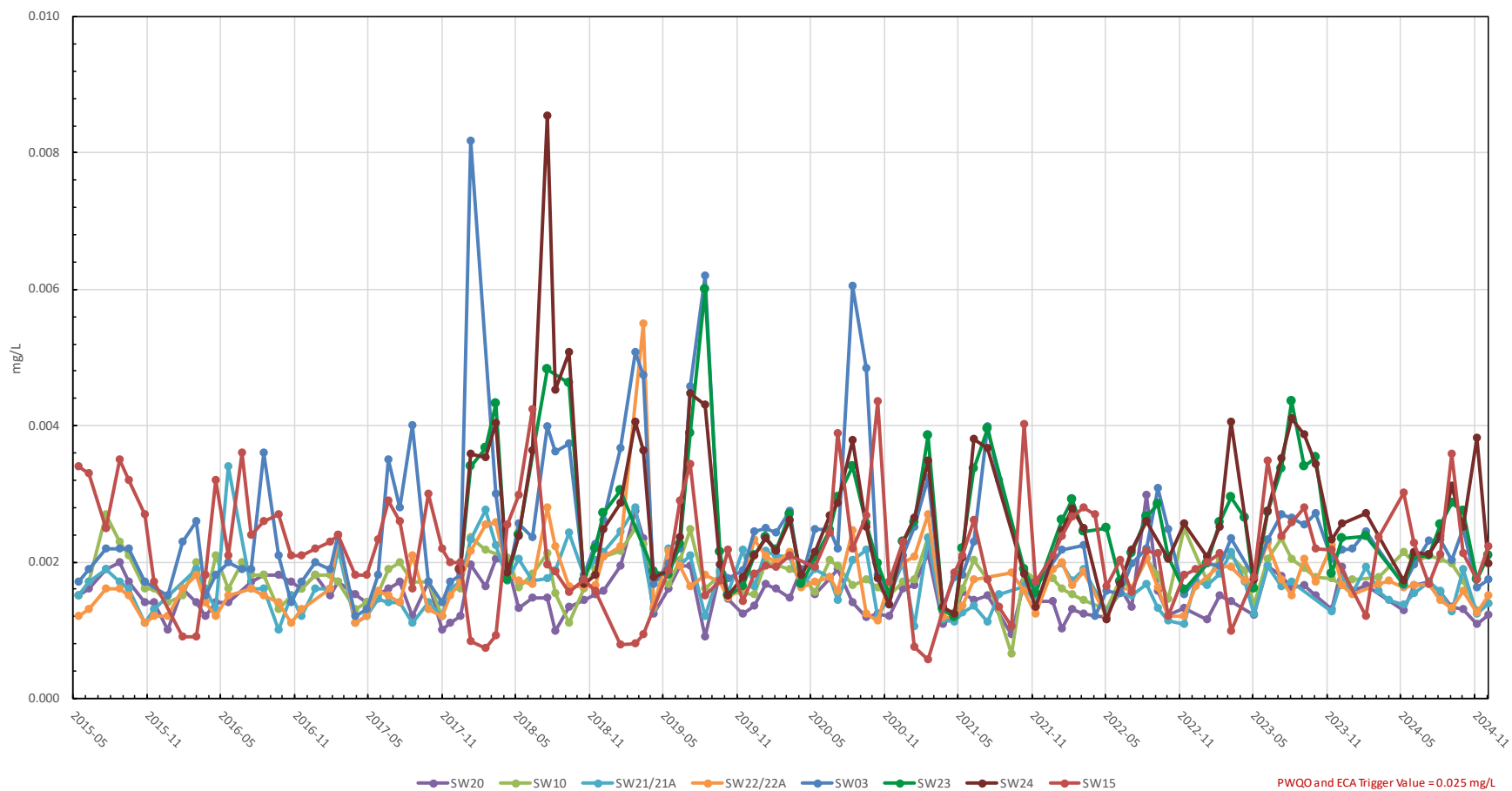


Figure 13: Rainy River Mine, Total Nickel in Pinewood River 2024

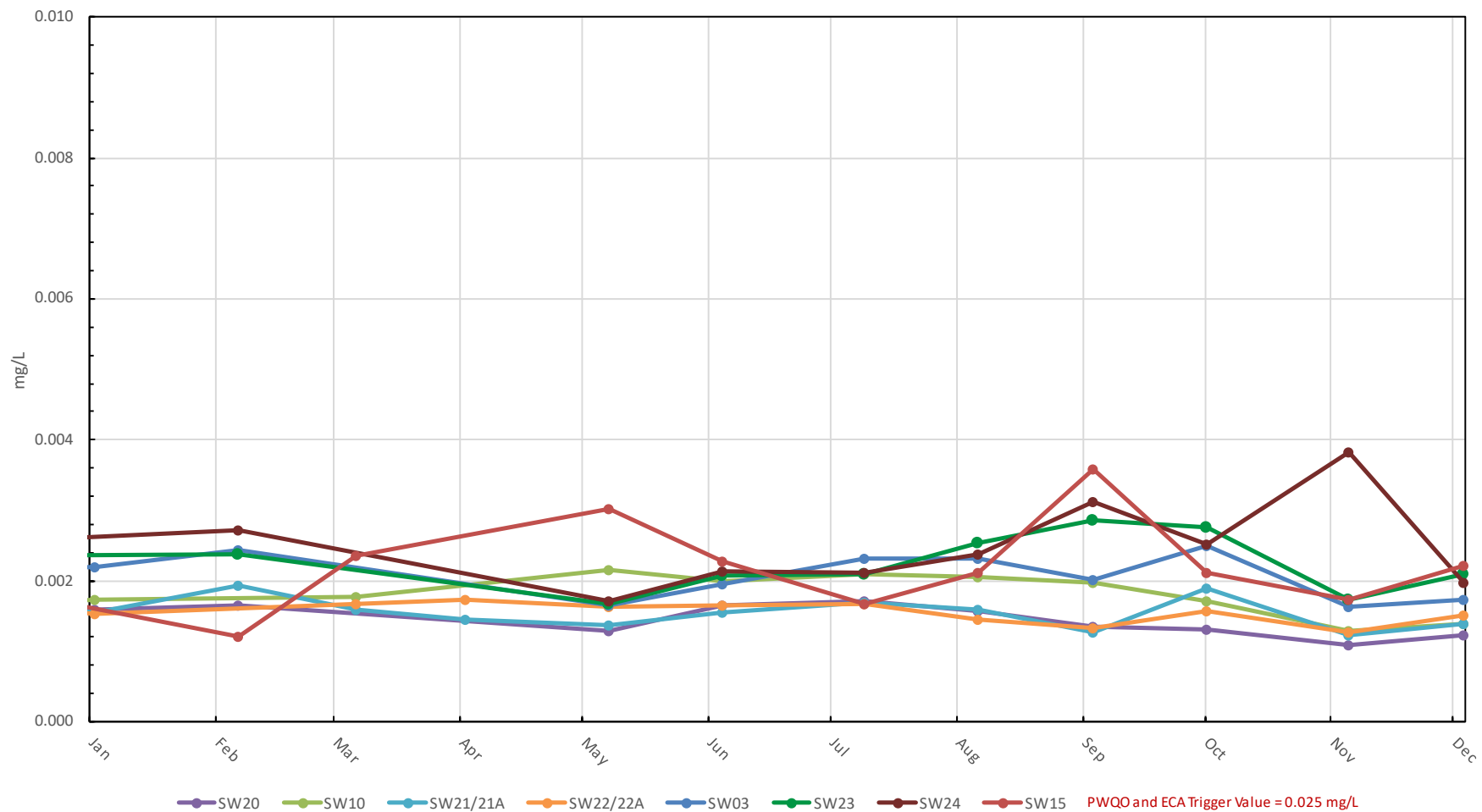


Figure 14: Rainy River Mine, Total Phosphorus in Pinewood River 2017-2024

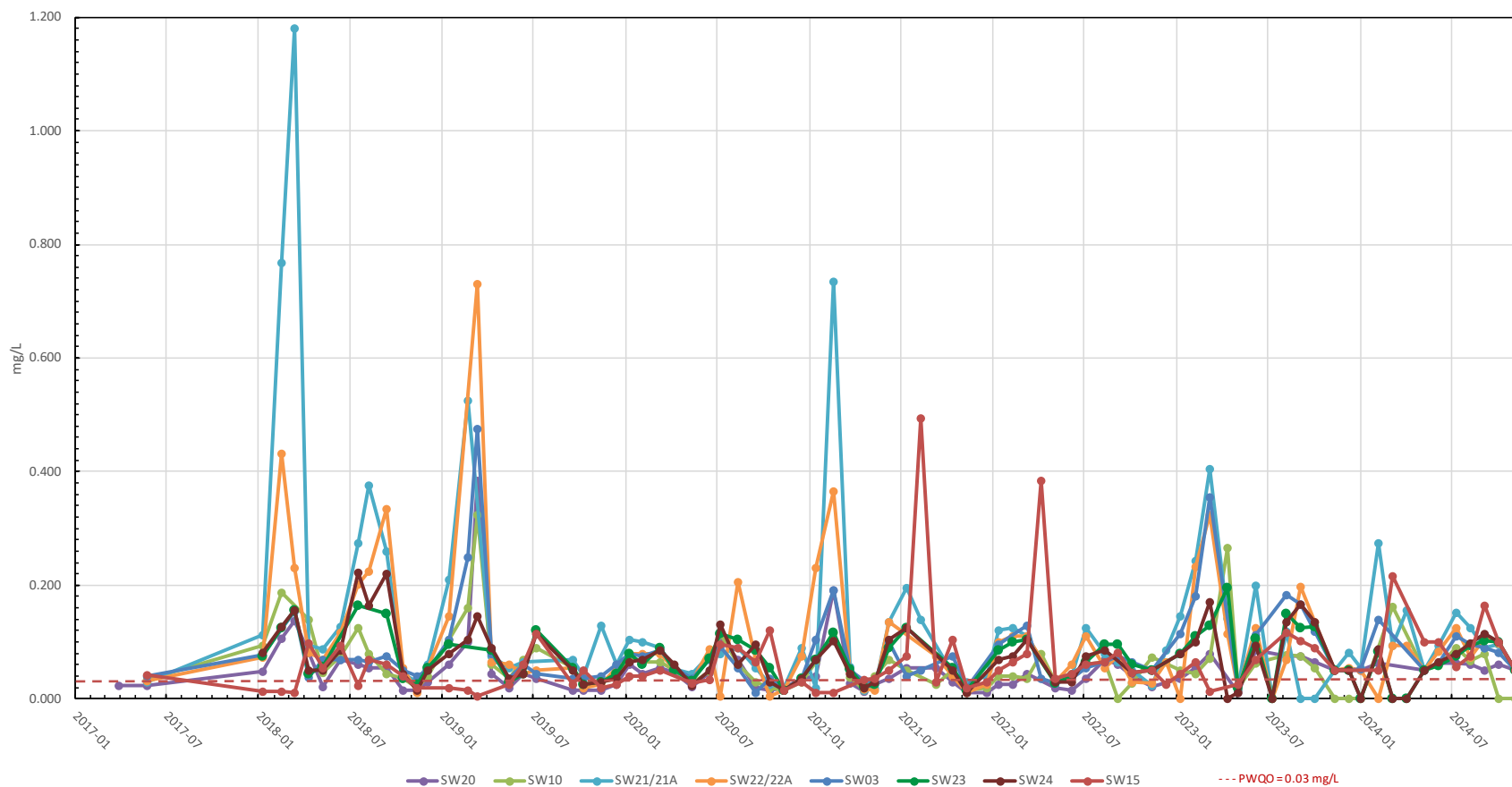


Figure 15: Rainy River Mine, Total Phosphorus in Pinewood River 2024

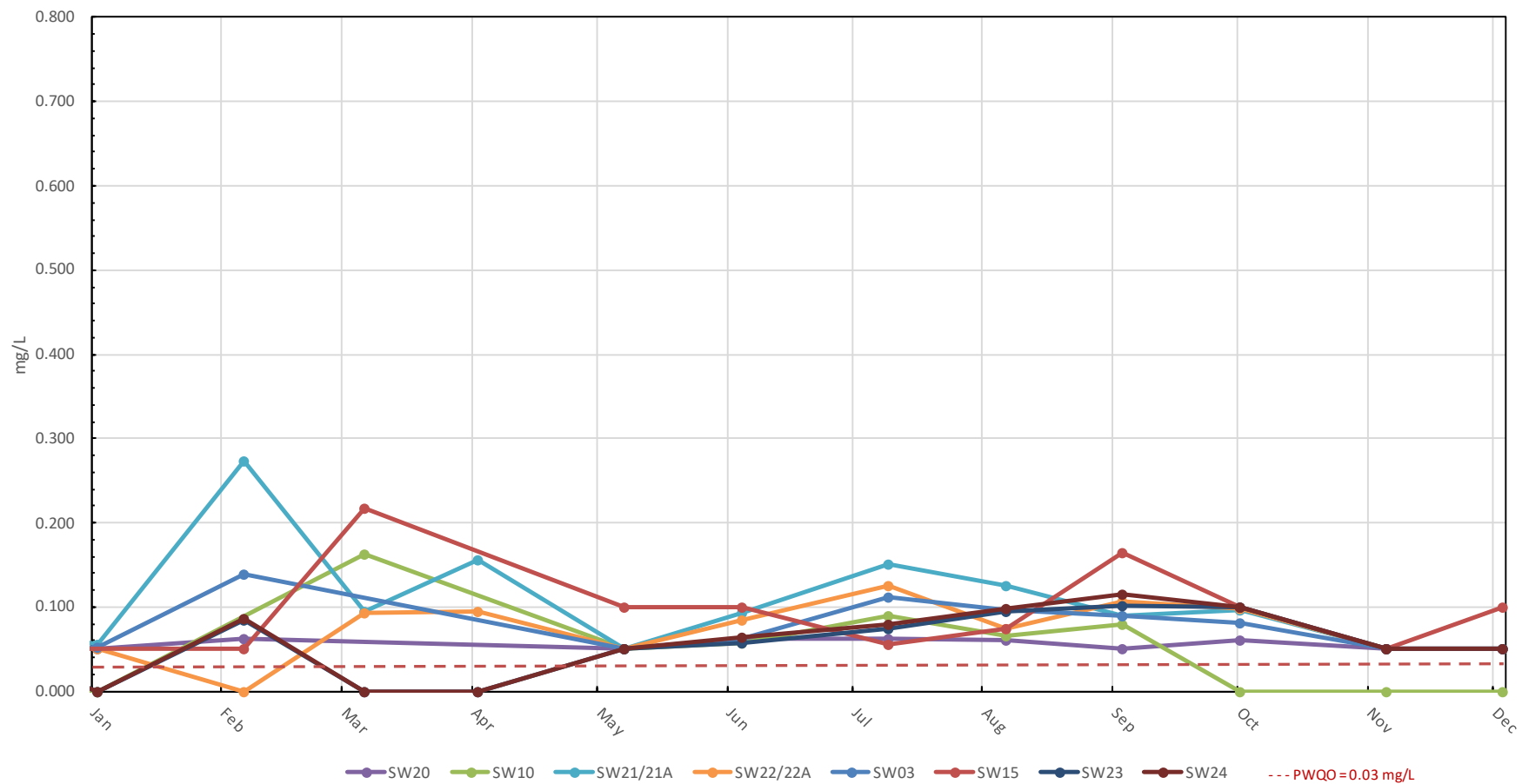


Figure 16: Rainy River Mine, Total Zinc in Pinewood River 2015-2024

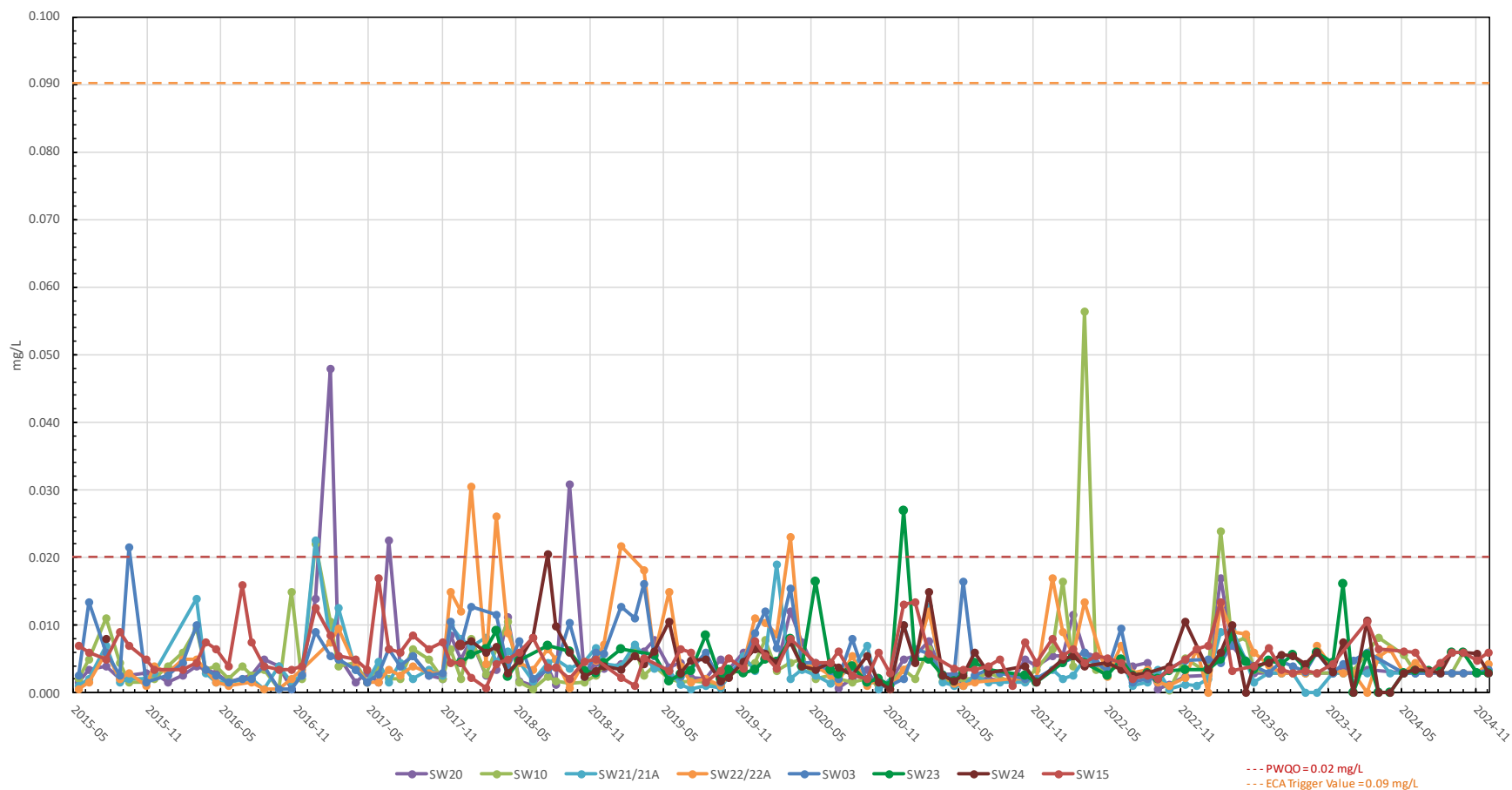


Figure 17: Rainy River Mine, Total Zinc in Pinewood River 2024

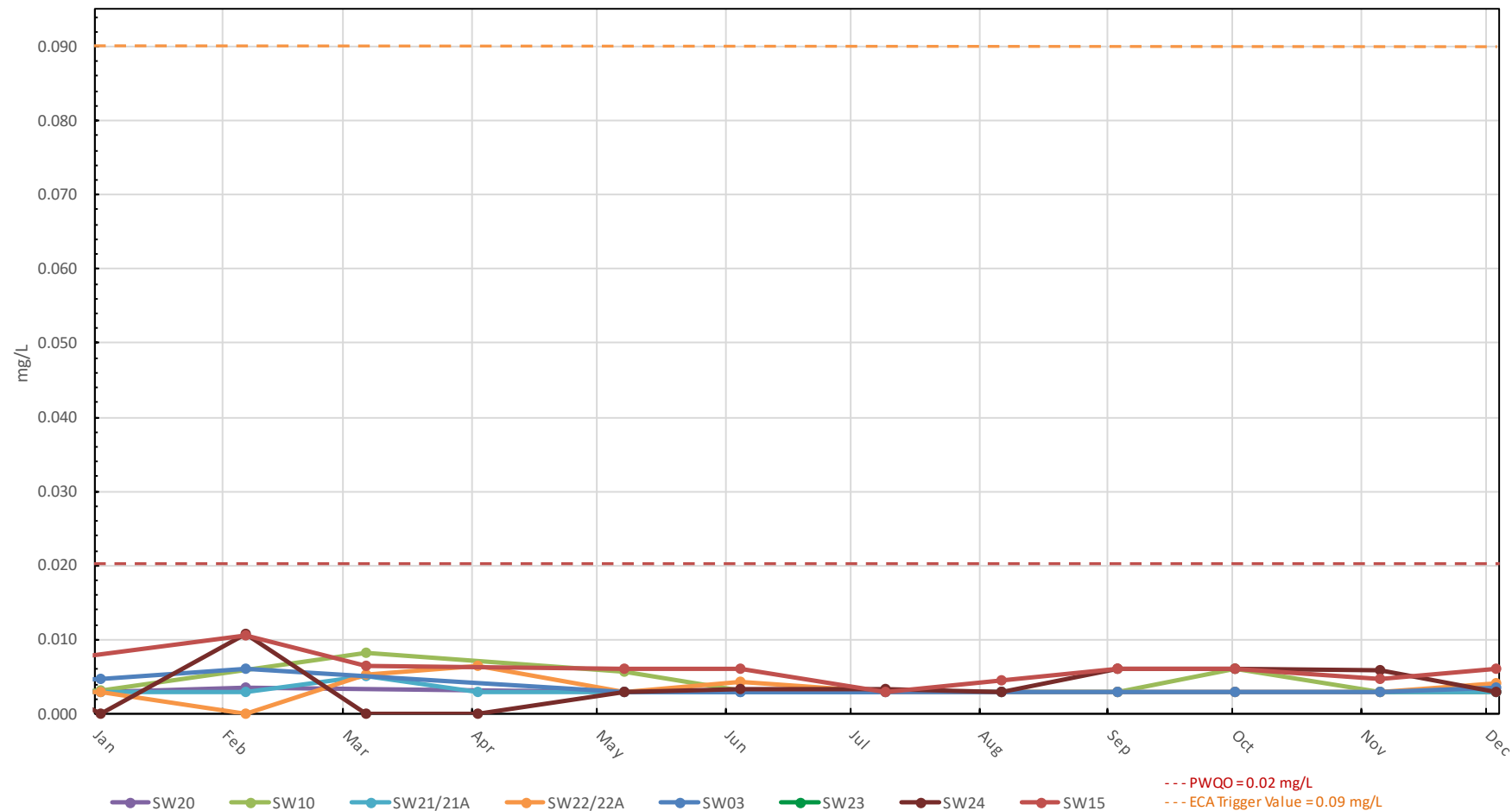




Figure 18: Rainy River Mine, Total Mercury in Pinewood River 2015-2024

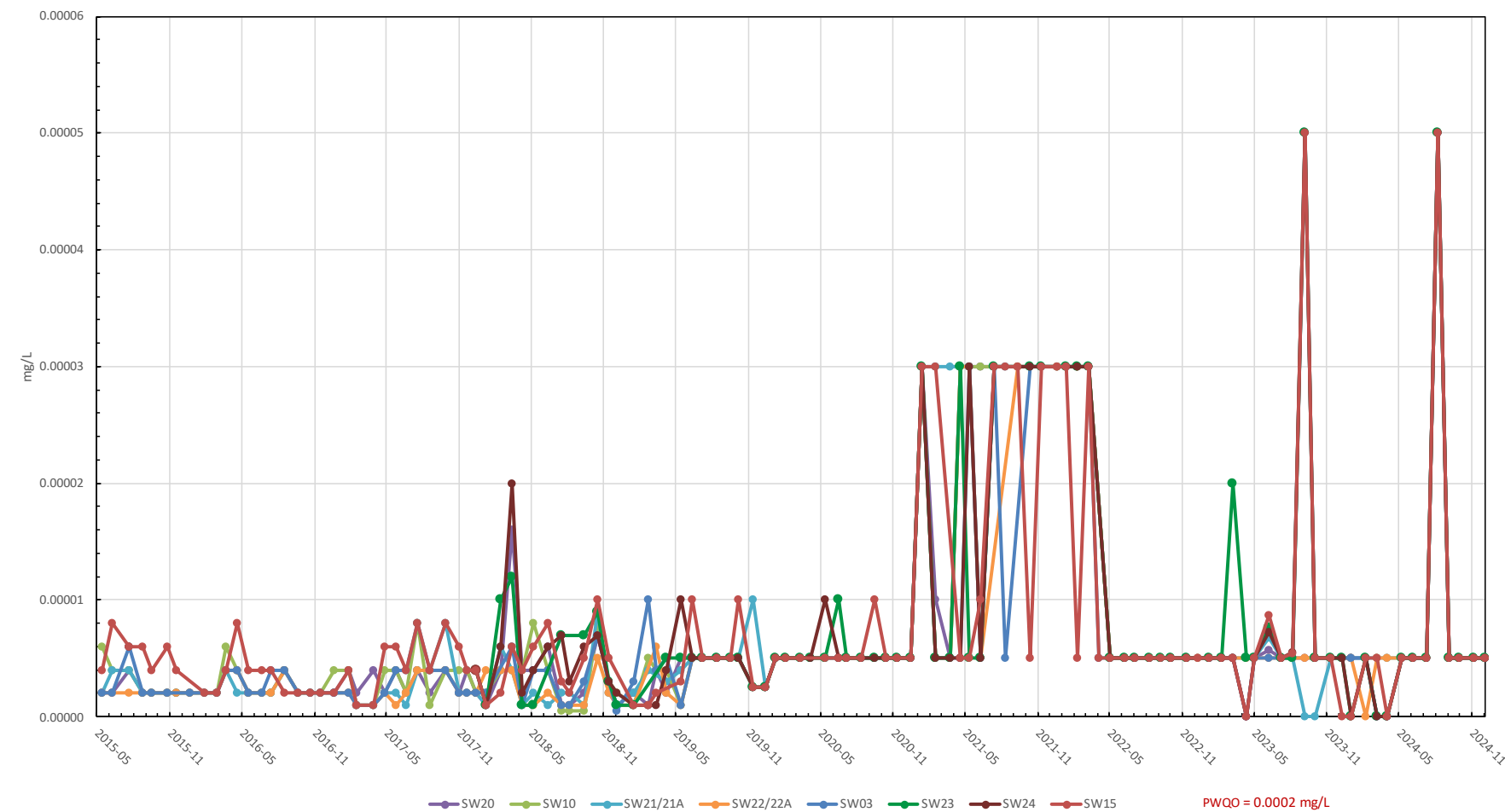


Figure 19: Rainy River Mine, Total Mercury in Pinewood River 2024

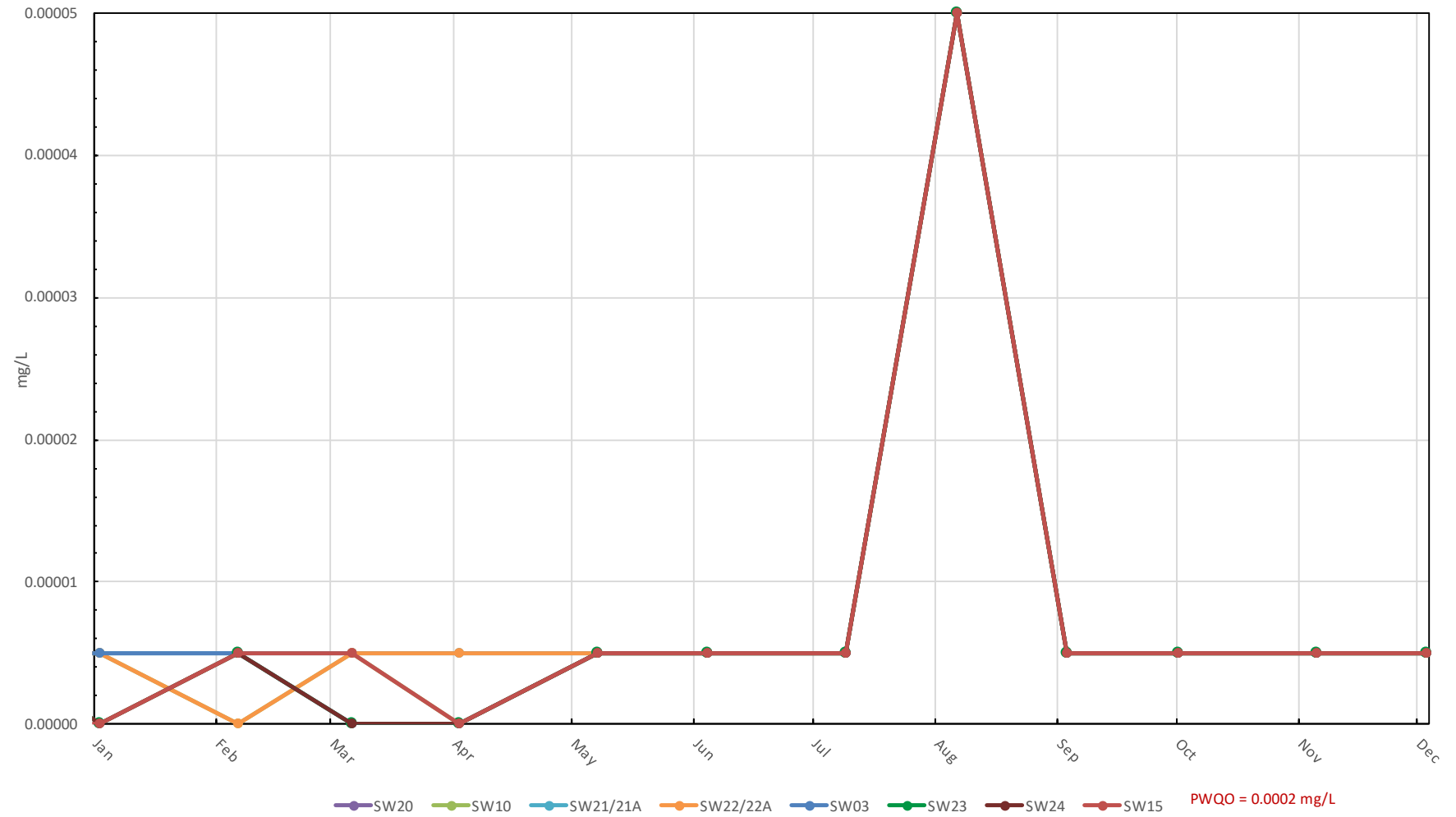


Figure 20: Rainy River Mine, Un-ionized Ammonia in Pinewood River 2015-2024

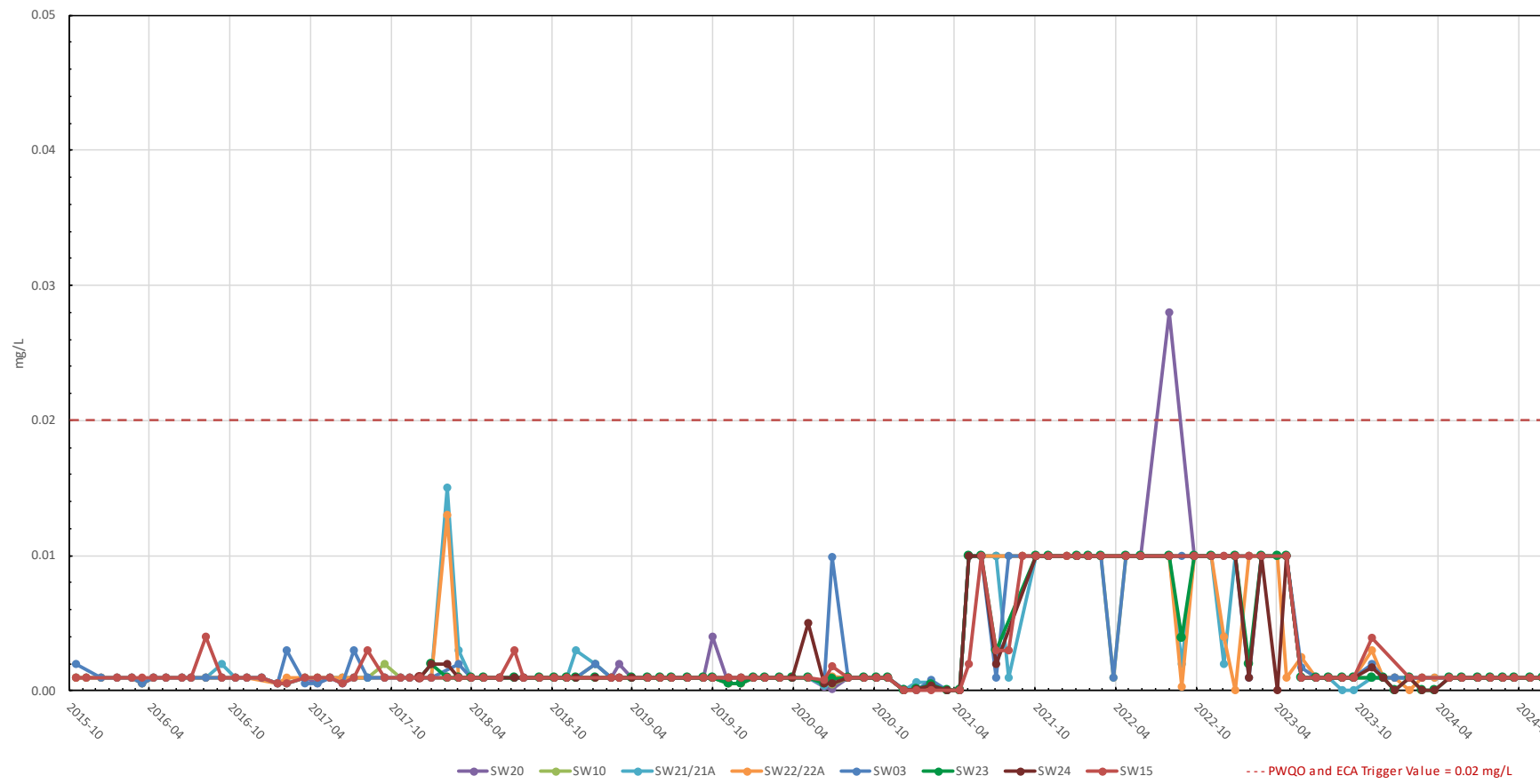


Figure 21: Rainy River Mine, Un-ionized Ammonia in Pinewood River 2024

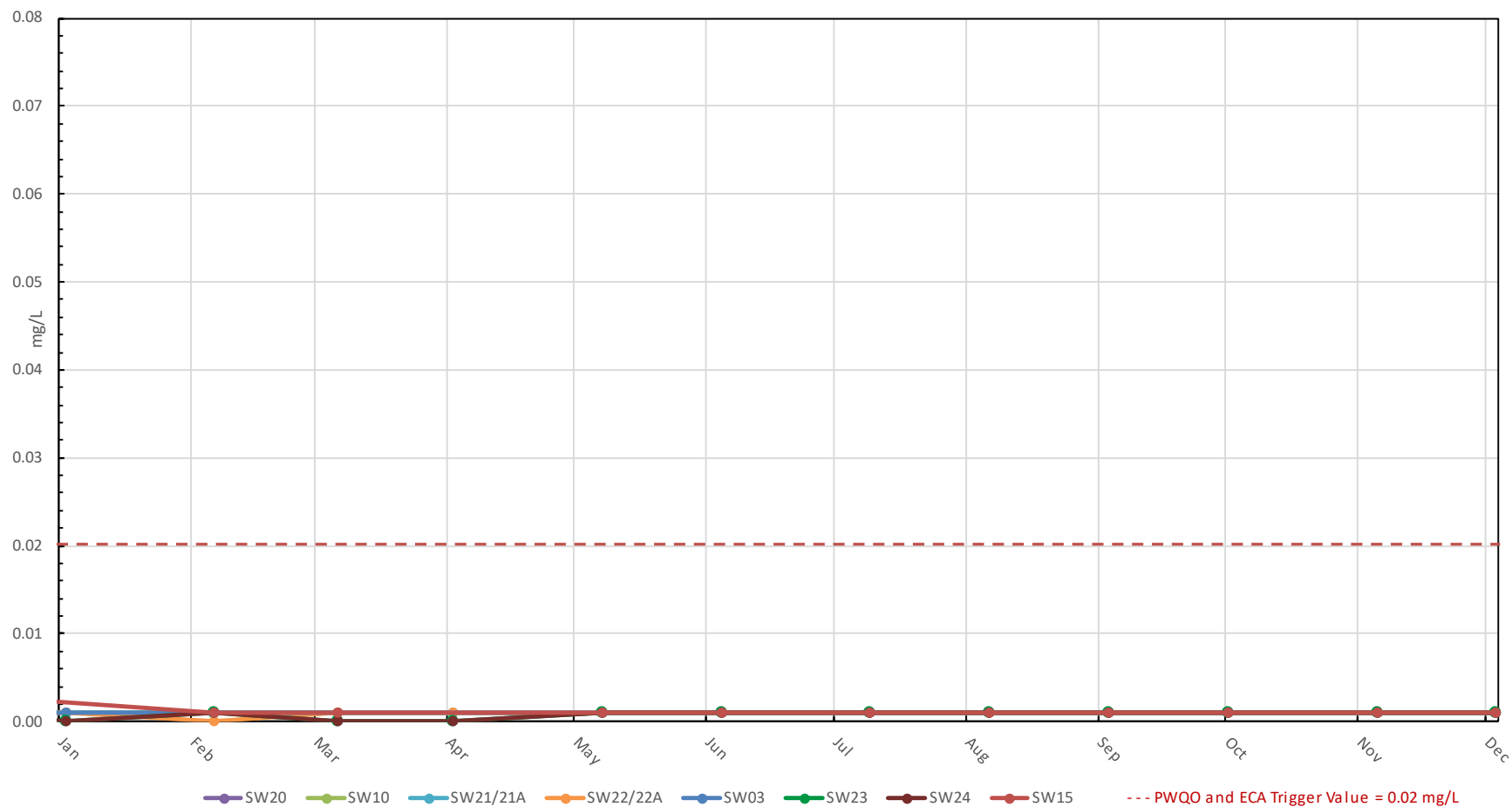


Figure 22: Rainy River Mine, Free Cyanide in Pinewood River 2018-2024

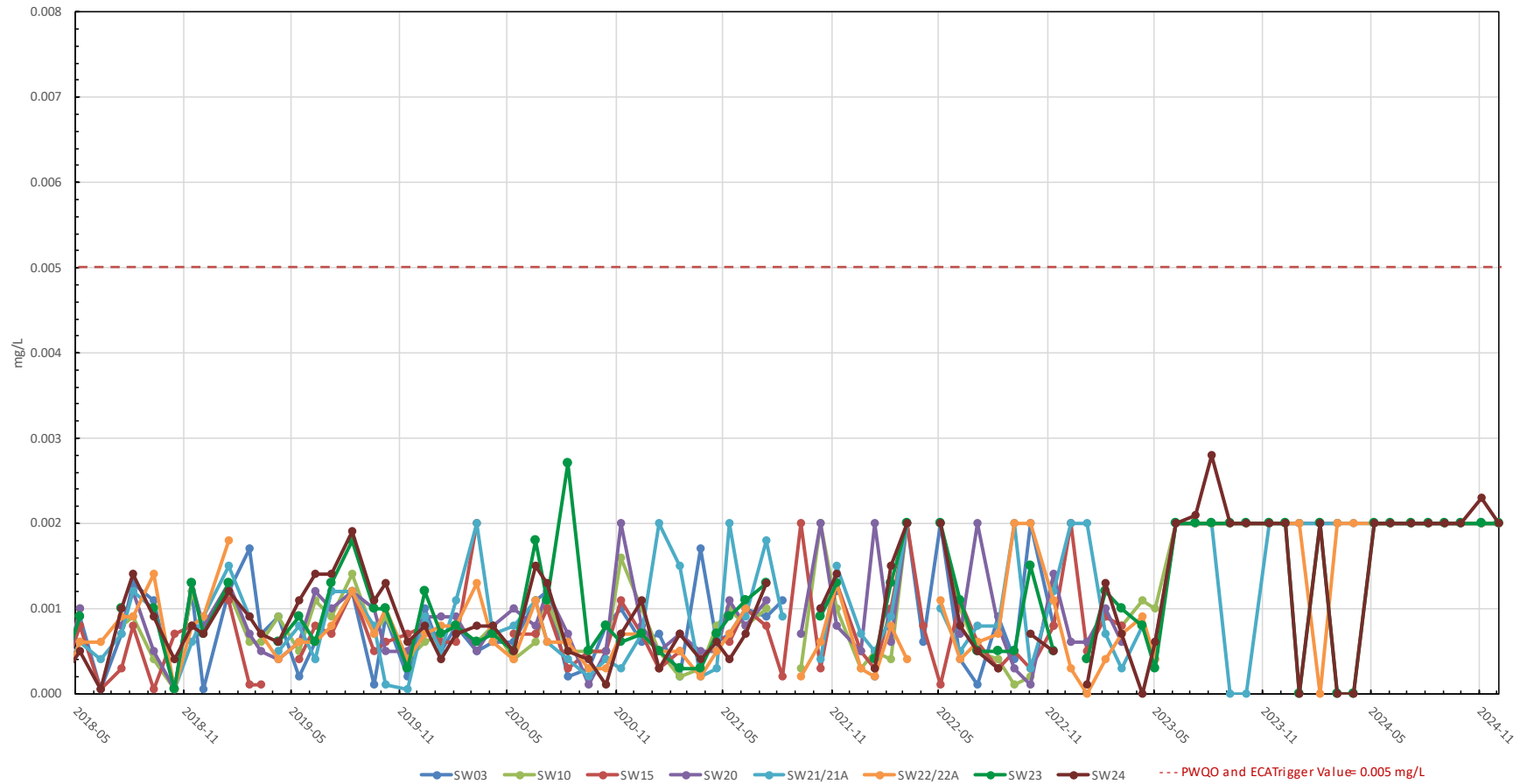


Figure 23: Rainy River Mine, Free Cyanide in Pinewood River 2024

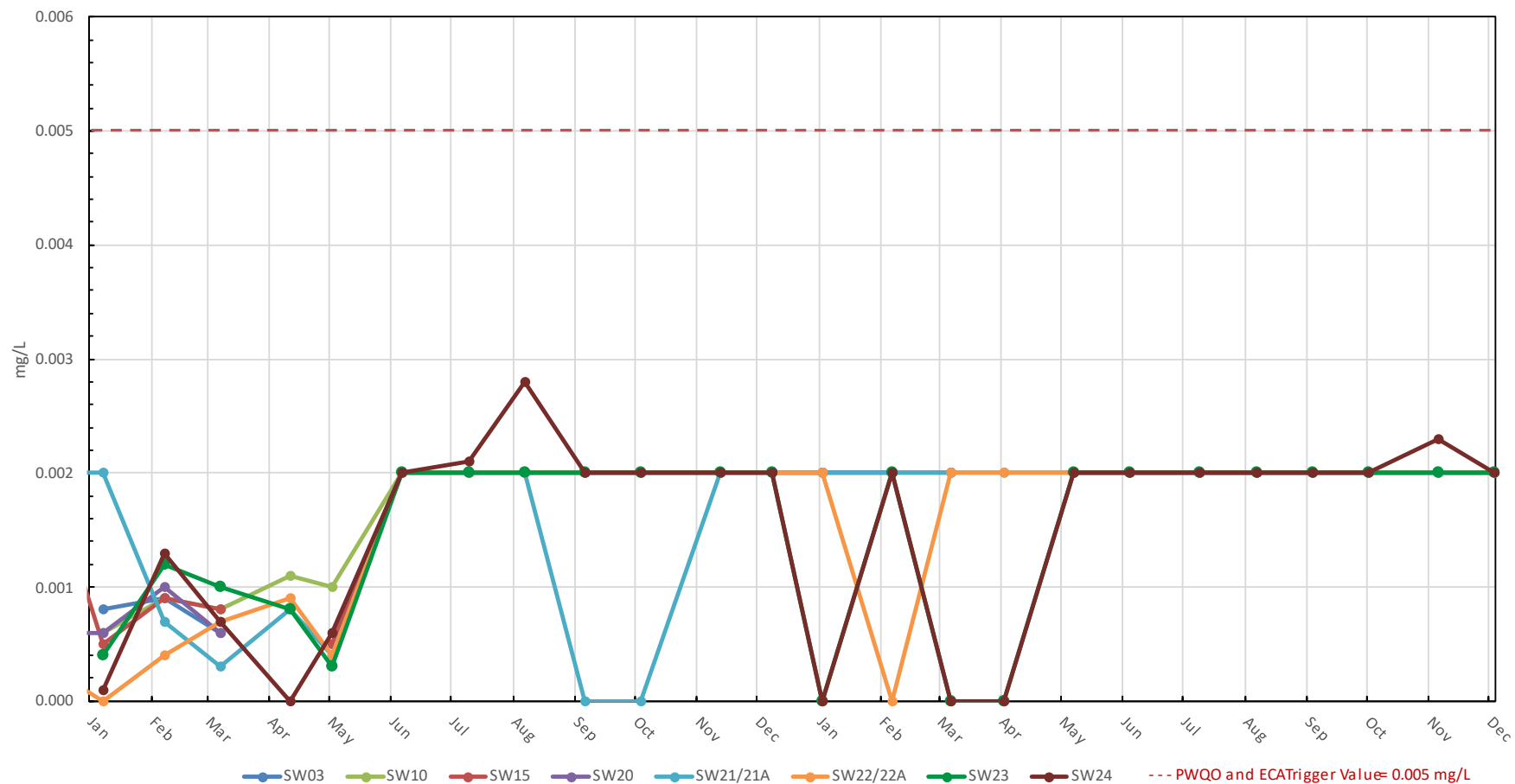


Figure 24: Rainy River Mine, Total Aluminum in Pinewood River 2015-2024

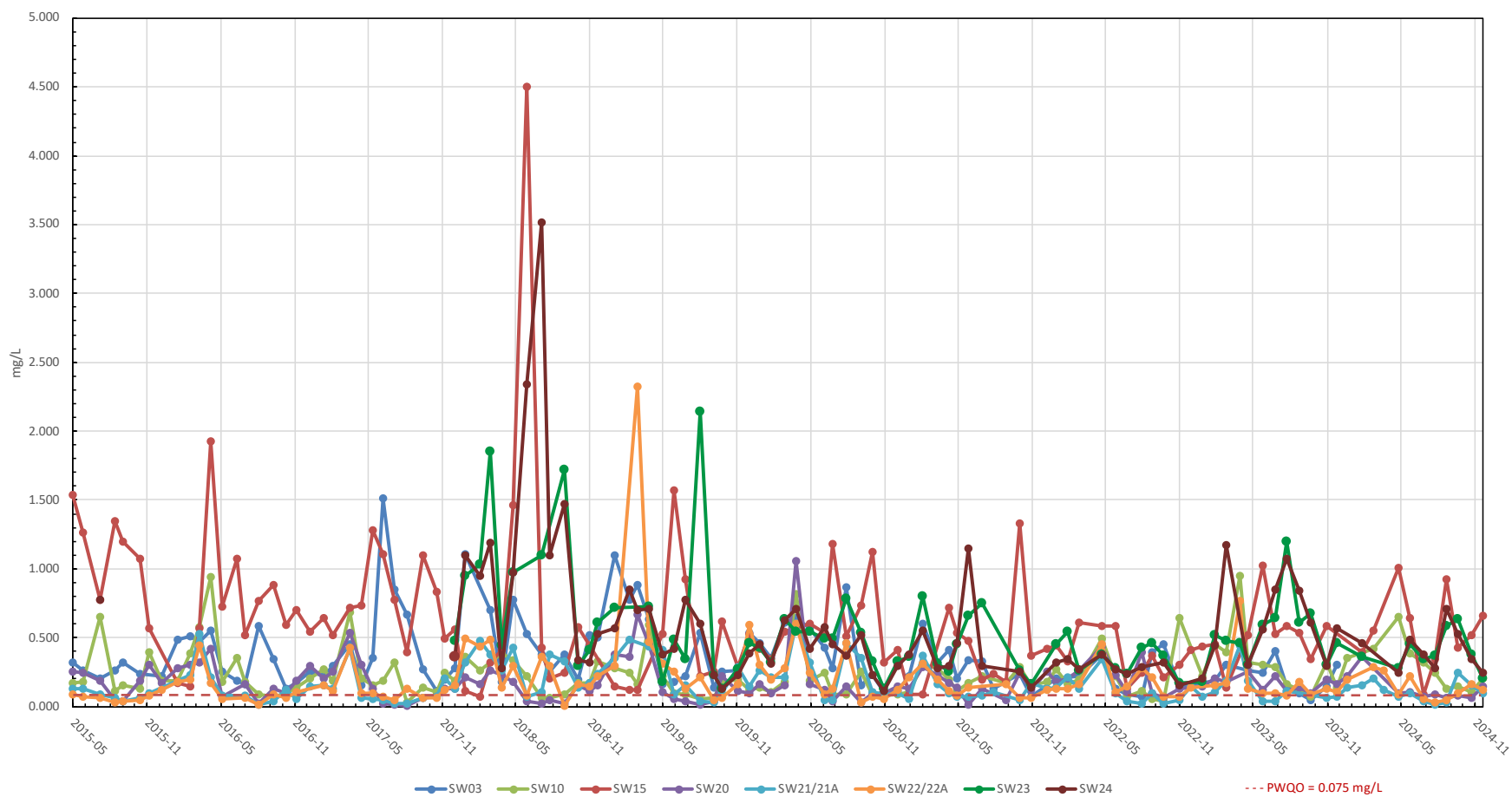


Figure 25: Rainy River Mine, Total Aluminum in Pinewood River 2024

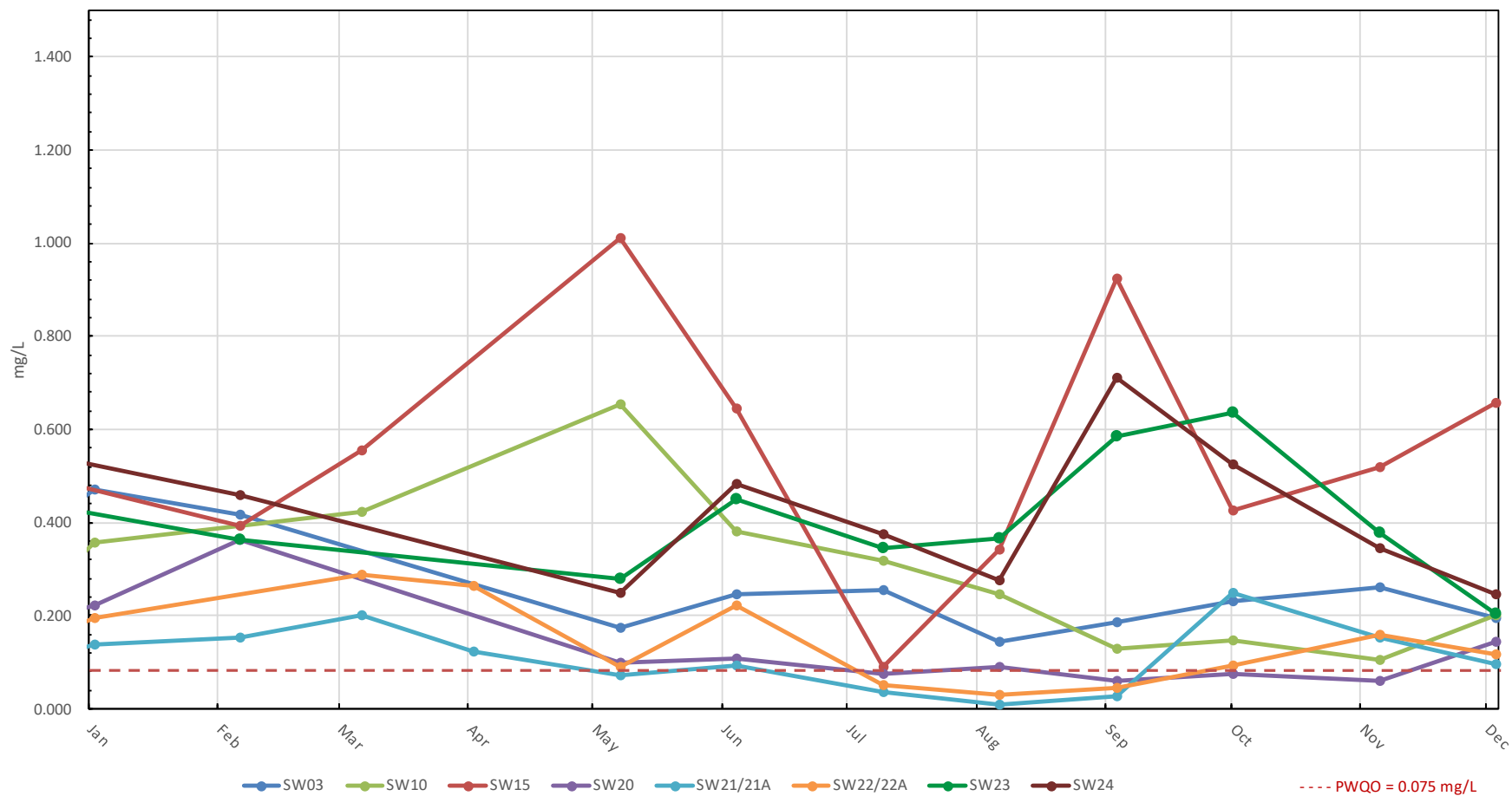




Figure 26: Rainy River Mine, Total Cadmium in Pinewood River 2015-2024

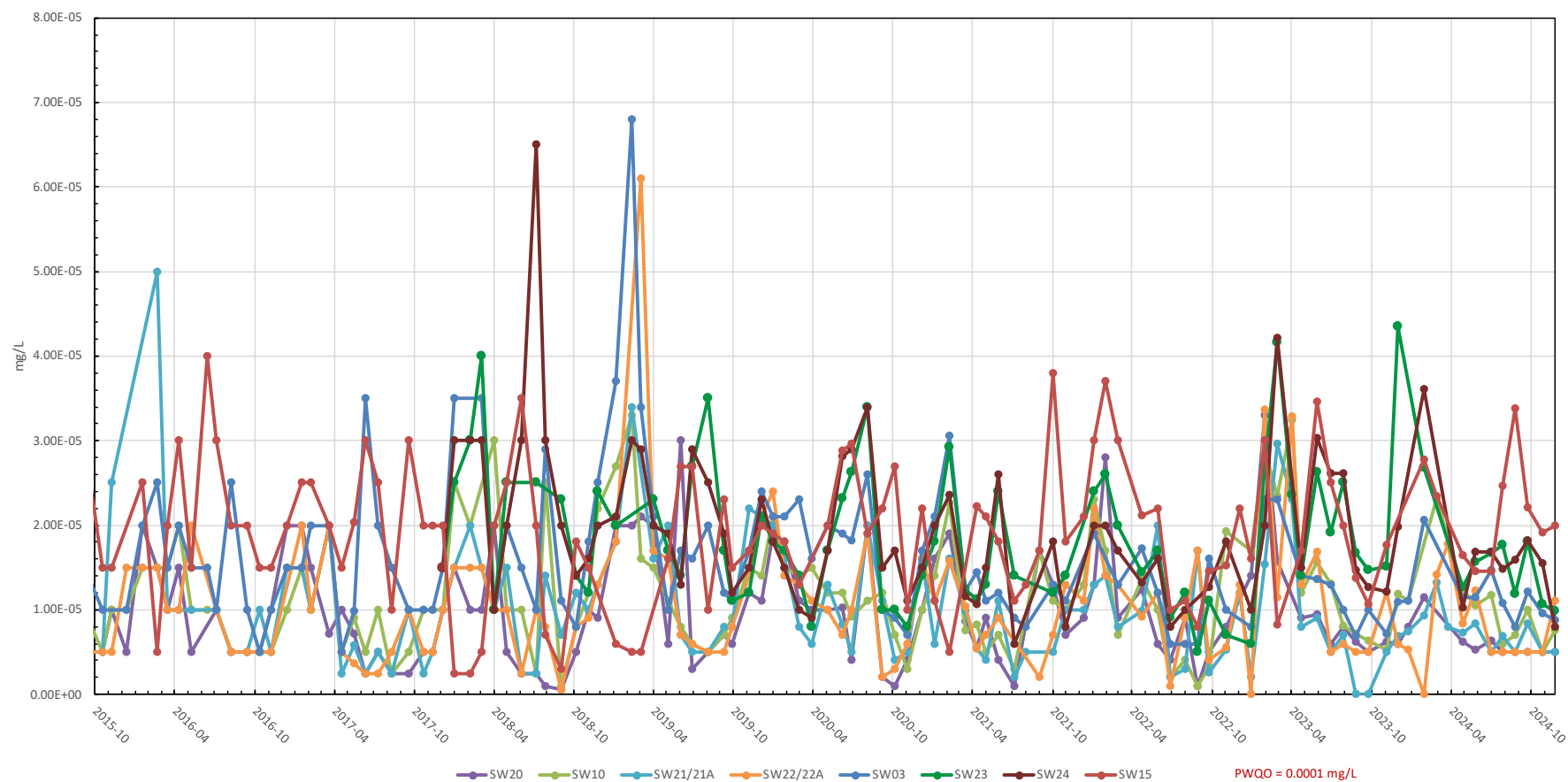


Figure 27: Rainy River Mine, Cadmium in Pinewood River 2024

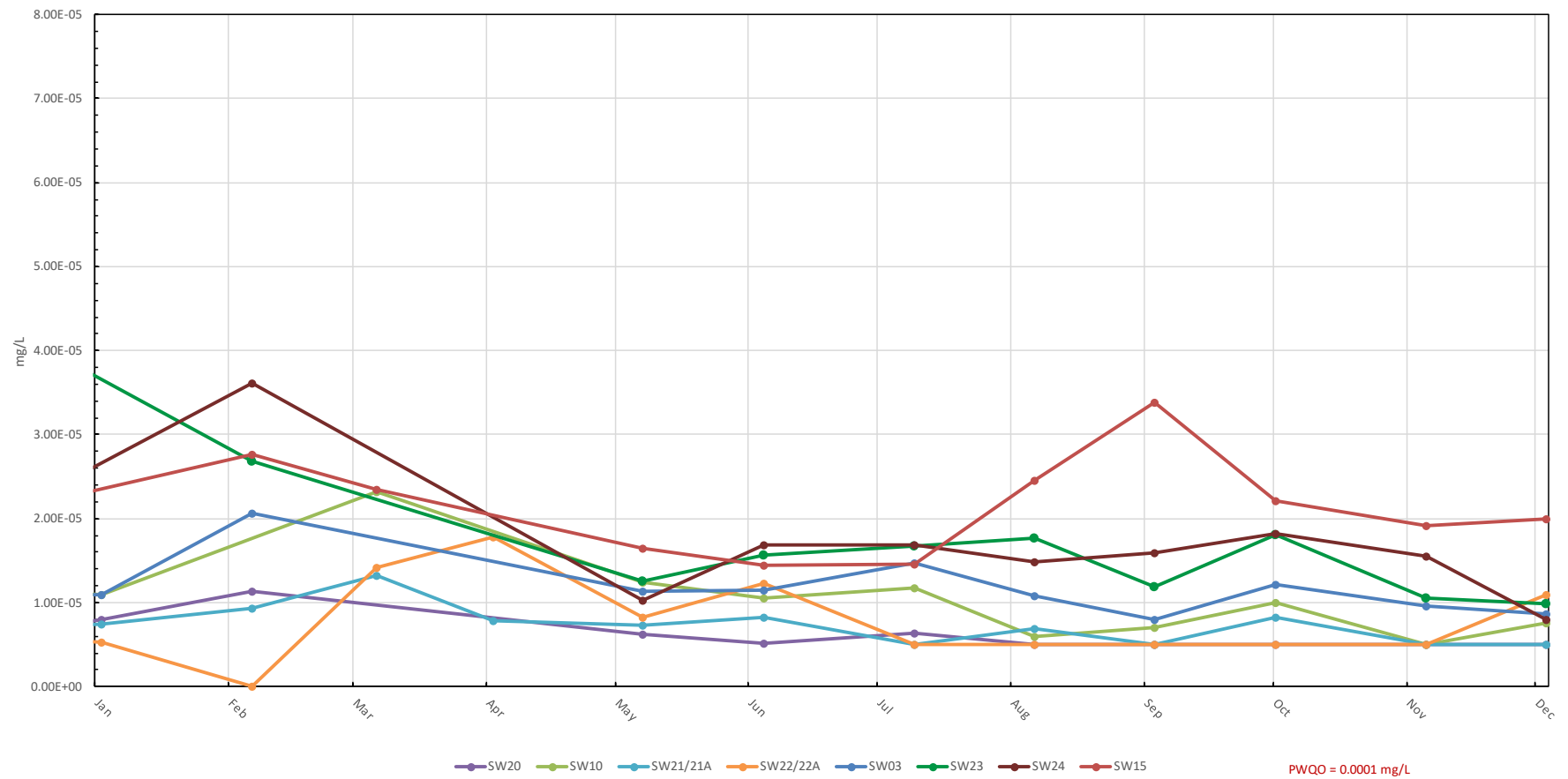


Figure 28: Rainy River Mine, Total Chromium in Pinewood River 2015-2024

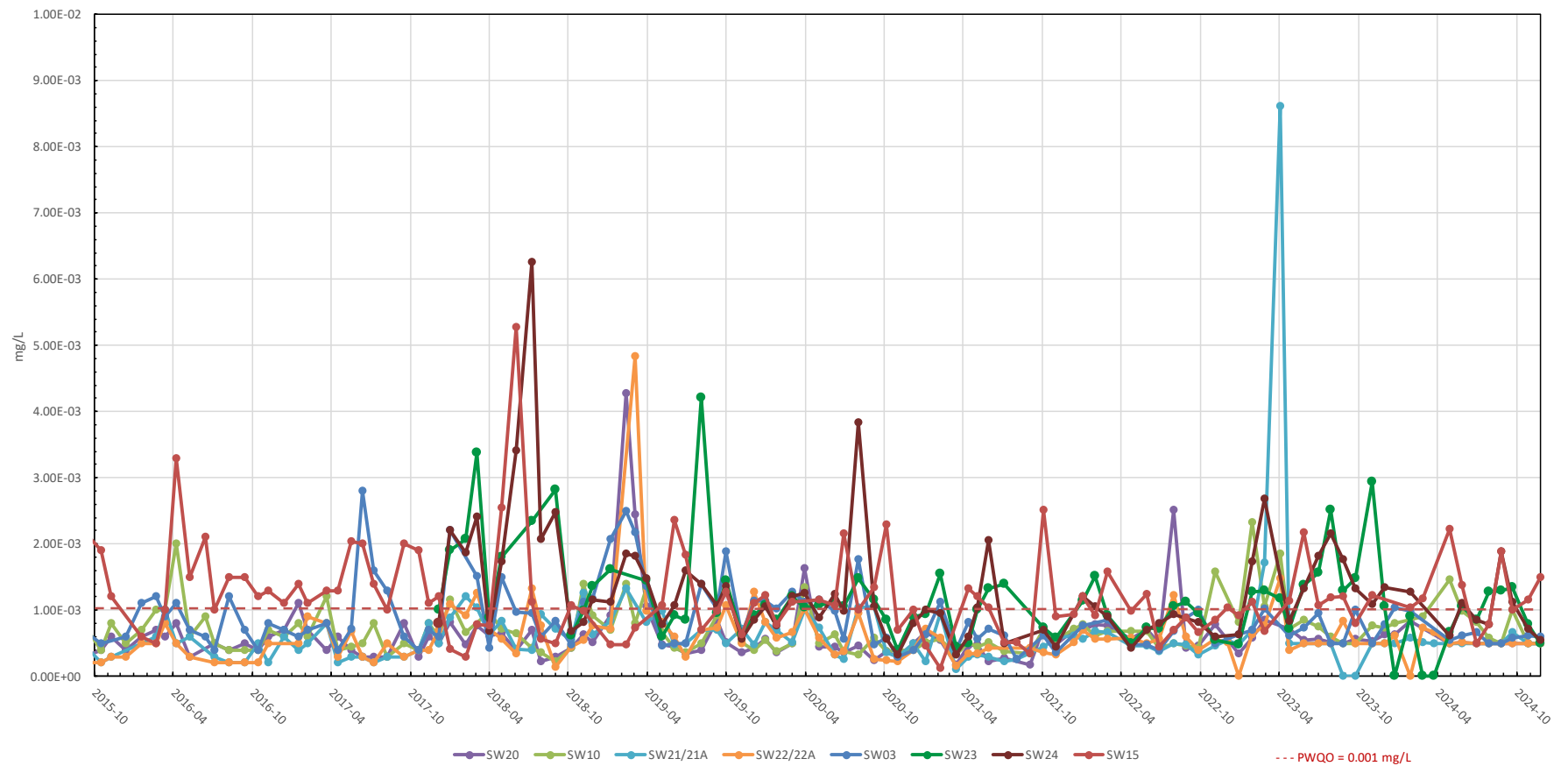


Figure 29: Rainy River Mine, Total Chromium in Pinewood River 2024

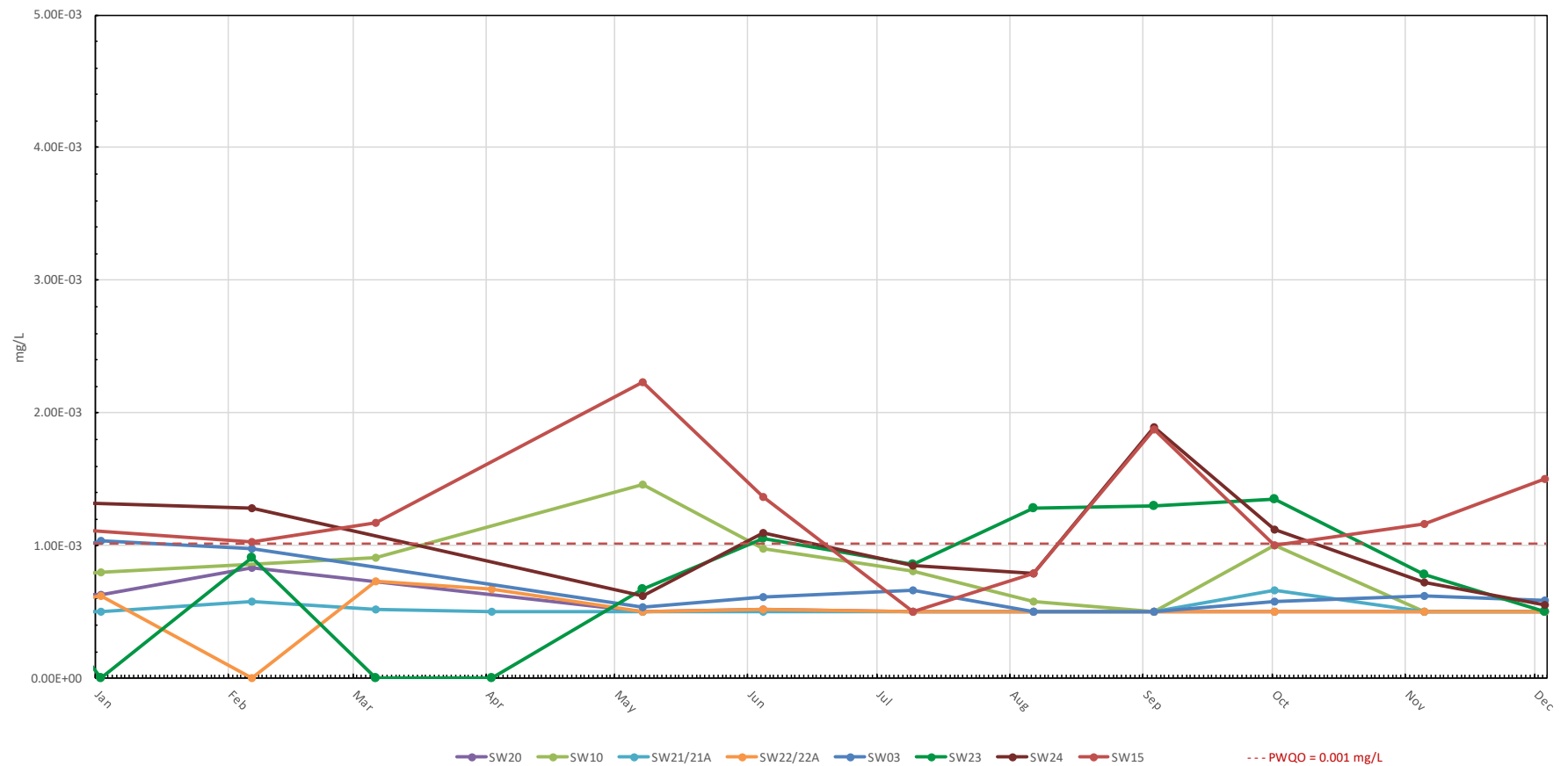


Figure 30: Rainy River Mine, Total Cobalt in Pinewood River 2015-2024

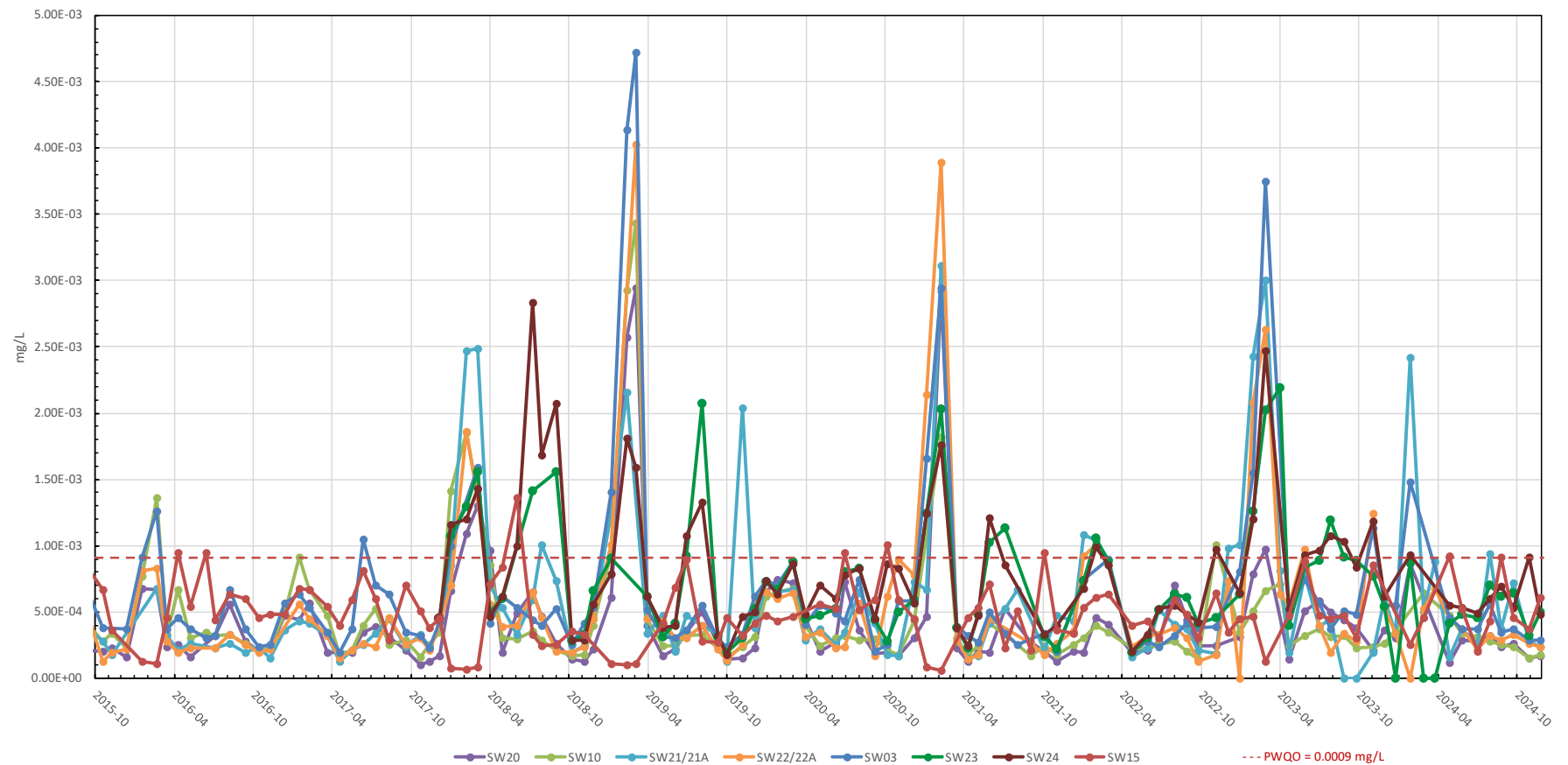


Figure 31: Rainy River Mine, Total Cobalt in Pinewood River 2024

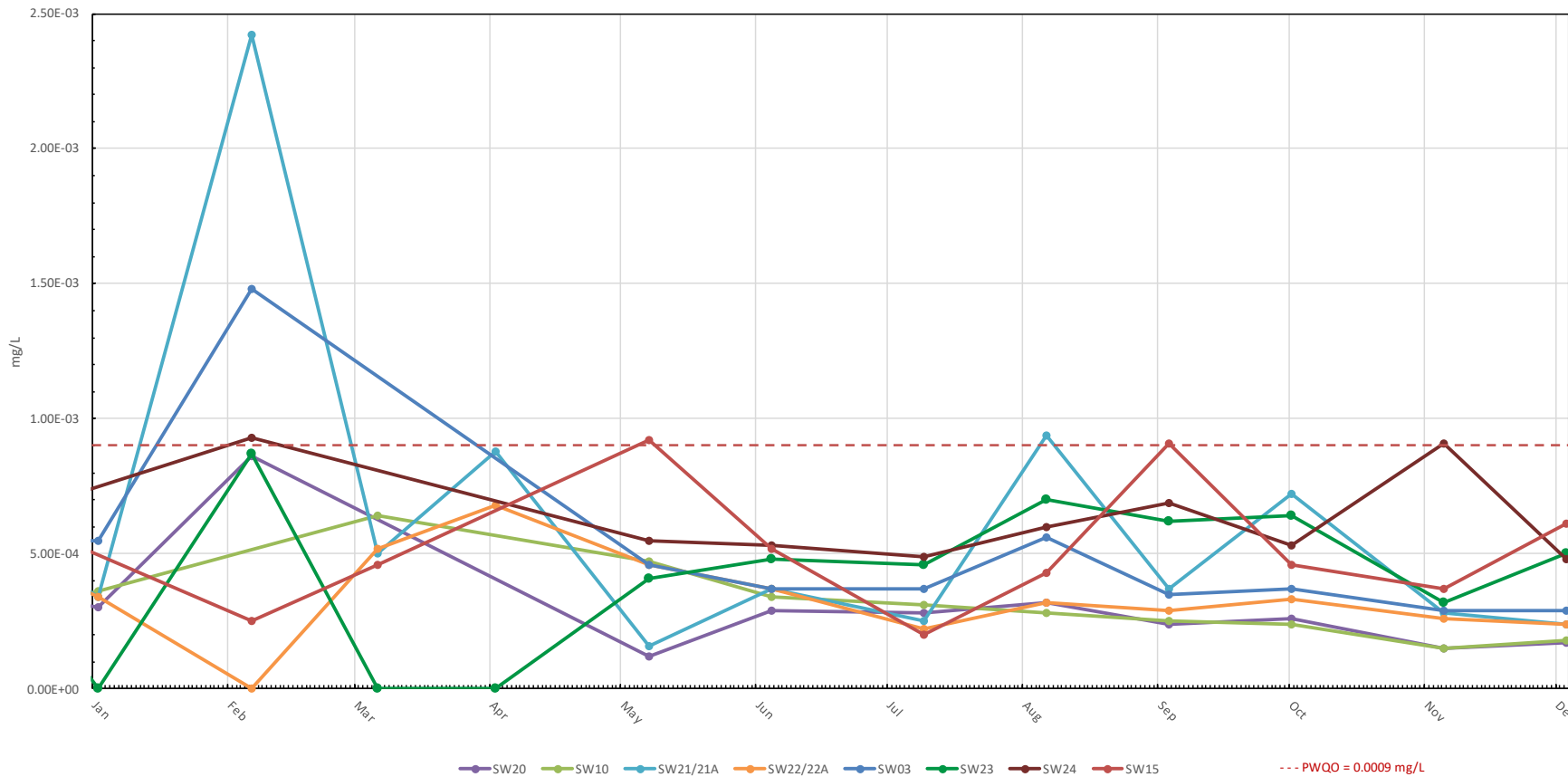


Figure 32: Rainy River Mine, Total Iron in Pinewood River 2015-2024

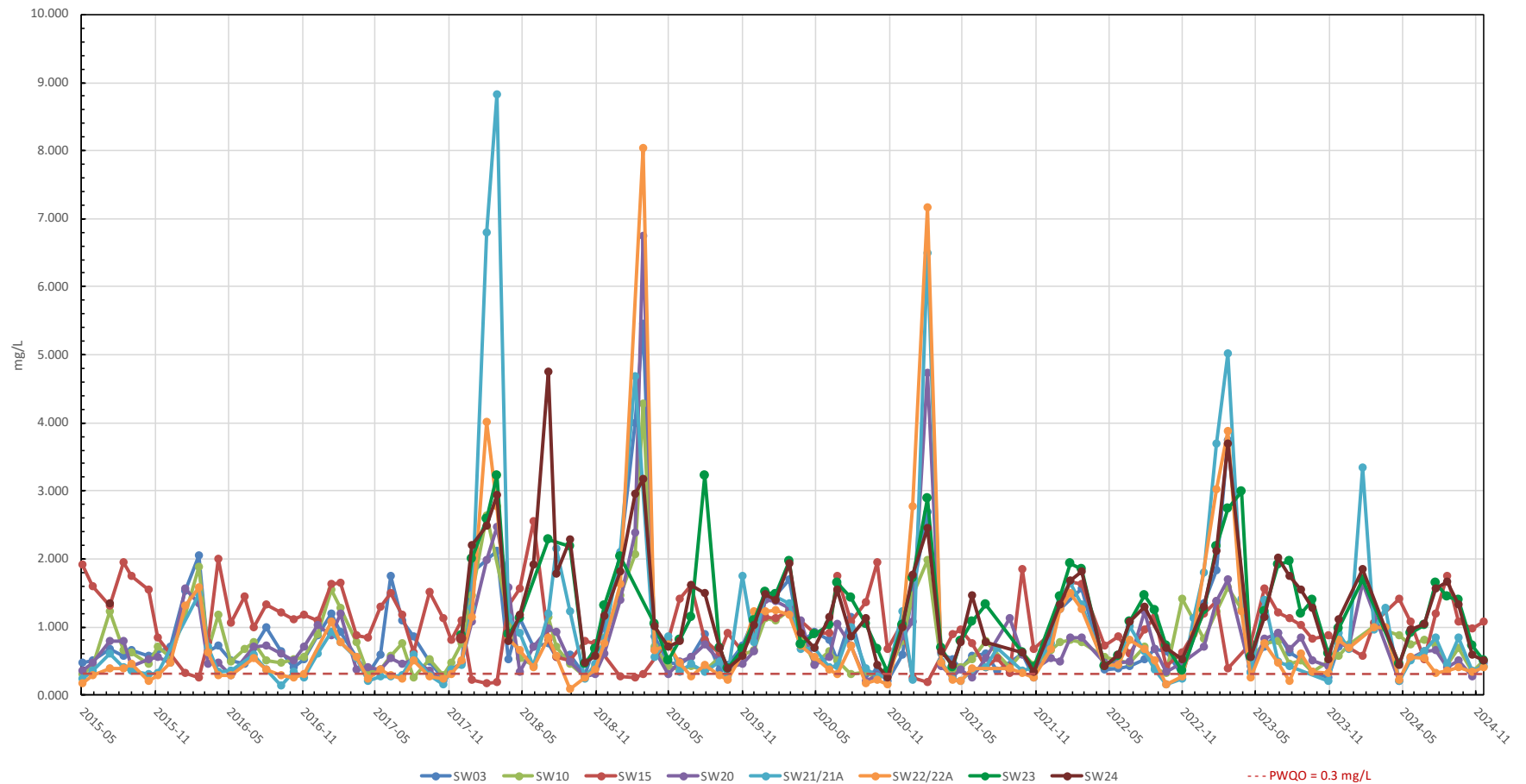


Figure 33: Rainy River Mine, Total Iron in Pinewood River 2024

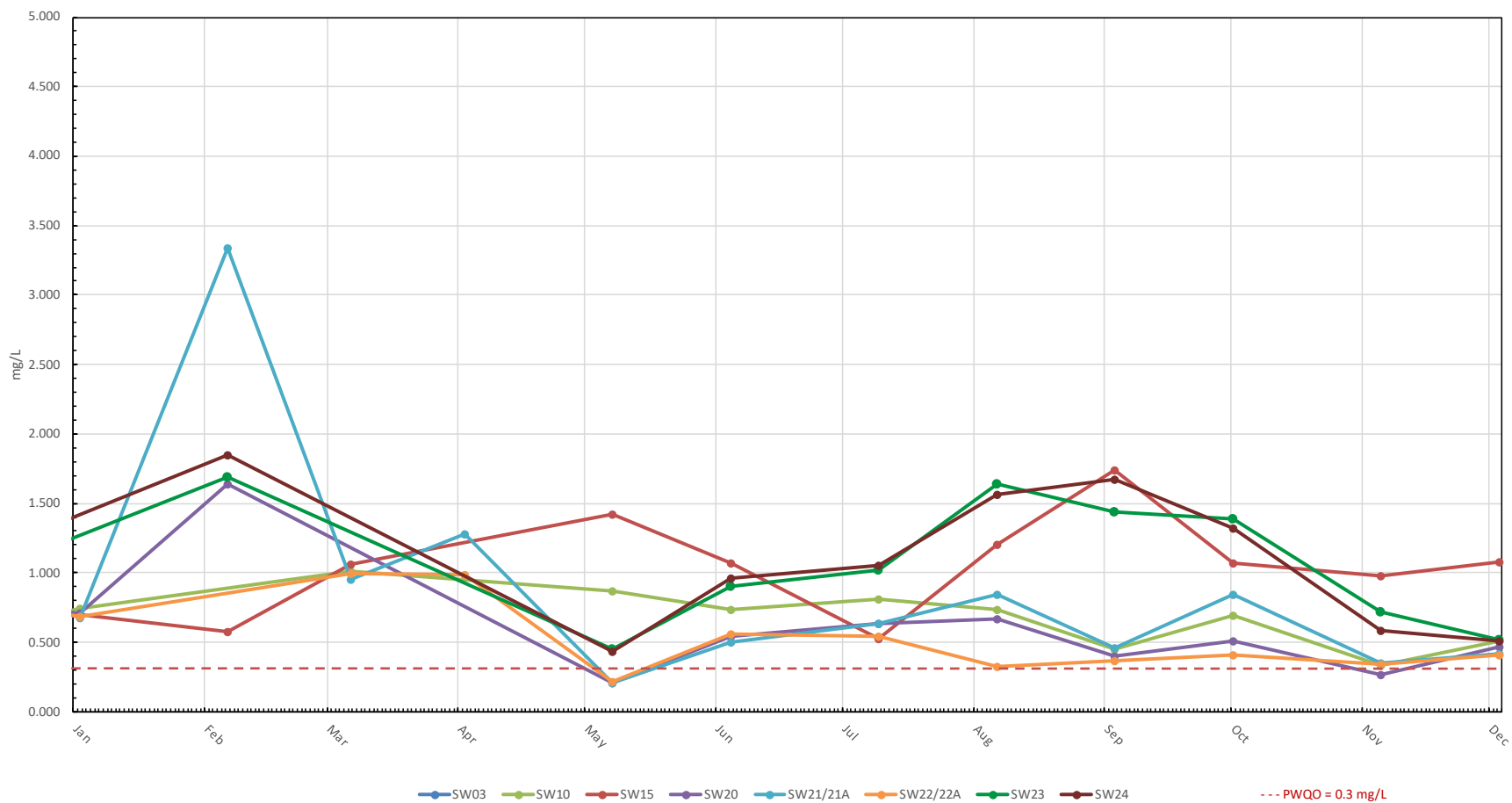




Figure 34: Rainy River Mine, Field pH levels in Area Creeks 2015-2024

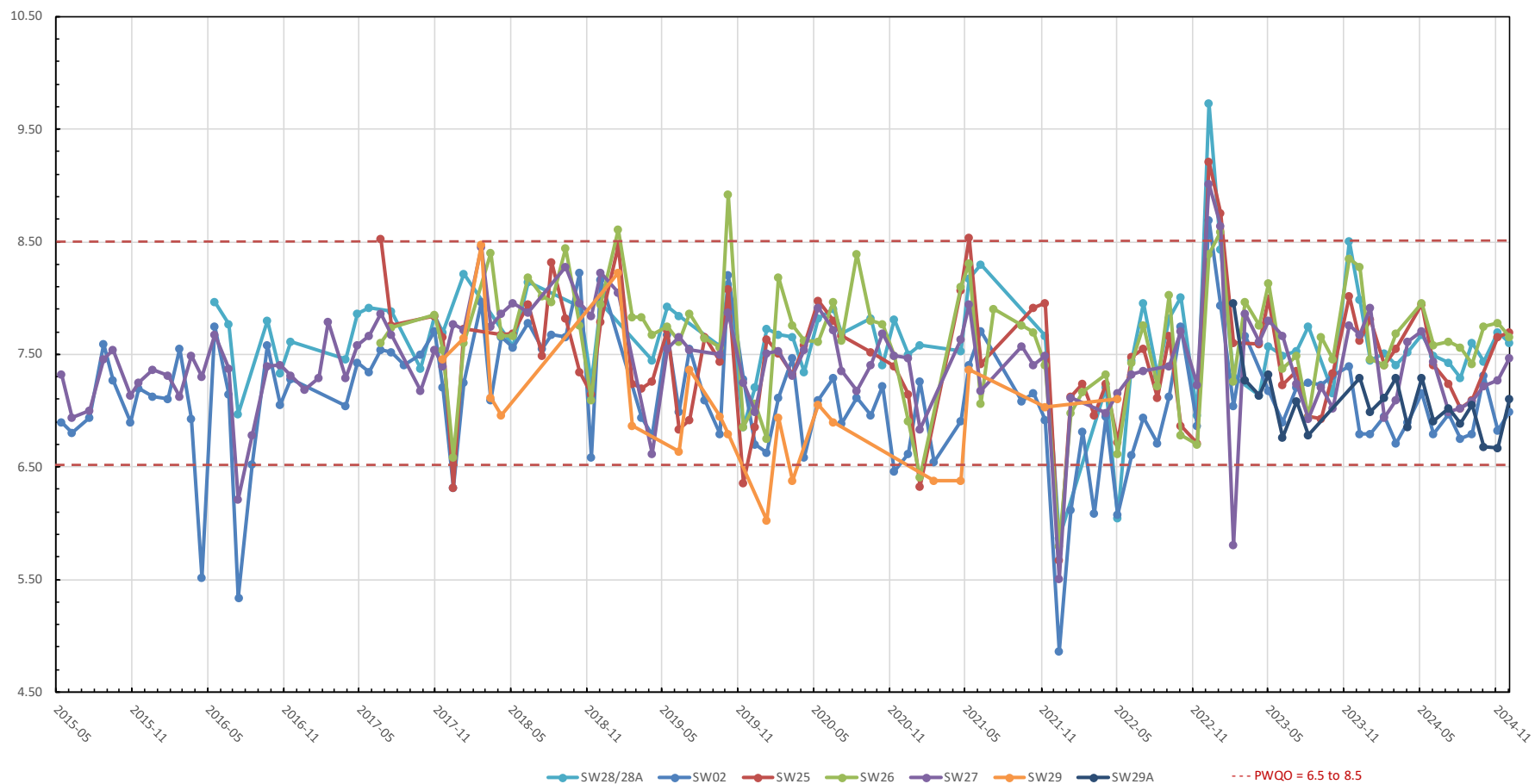


Figure 35: Rainy River Mine, Field pH levels in Area Creeks 2024

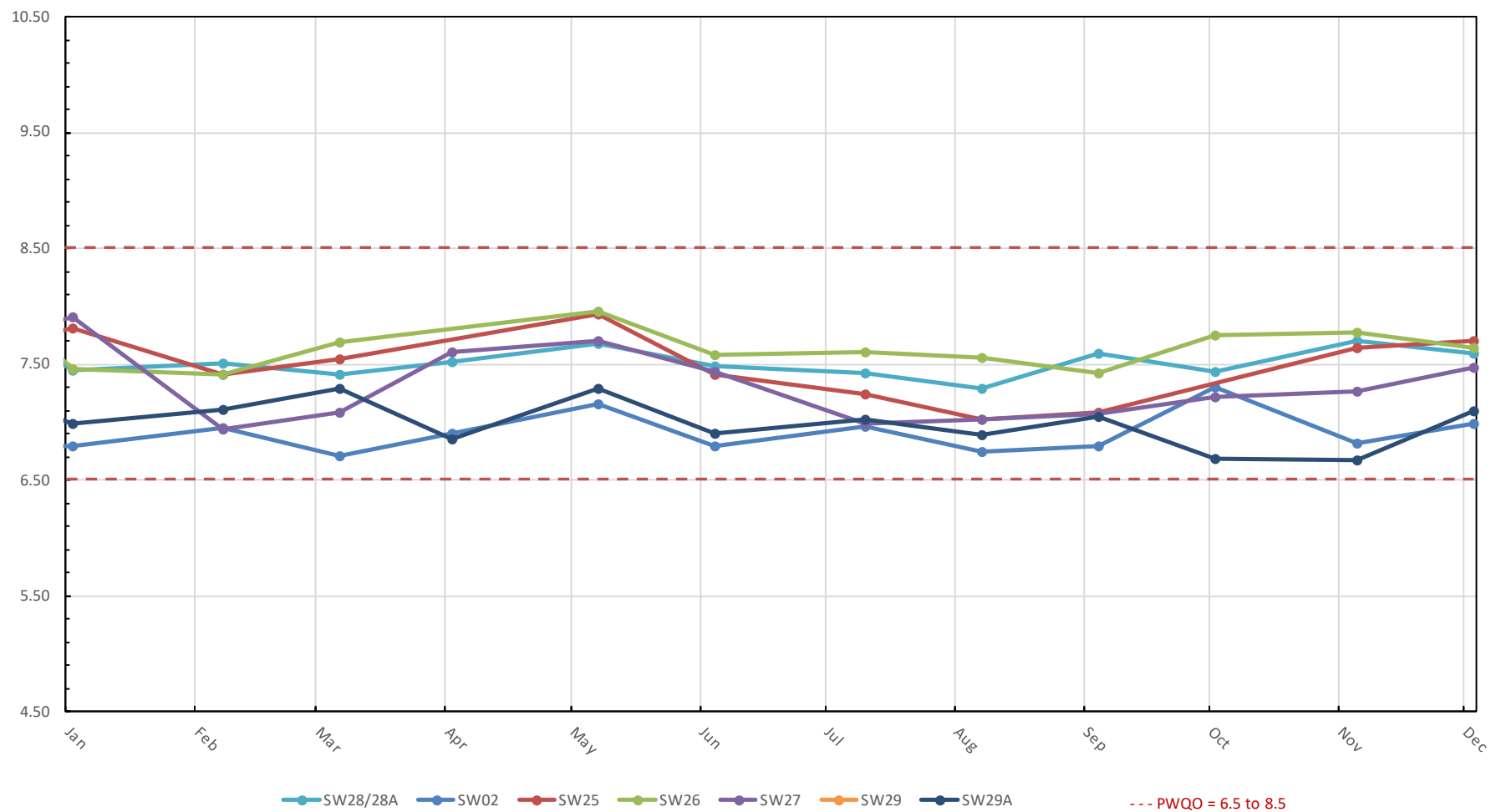


Figure 36: Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2015-2024

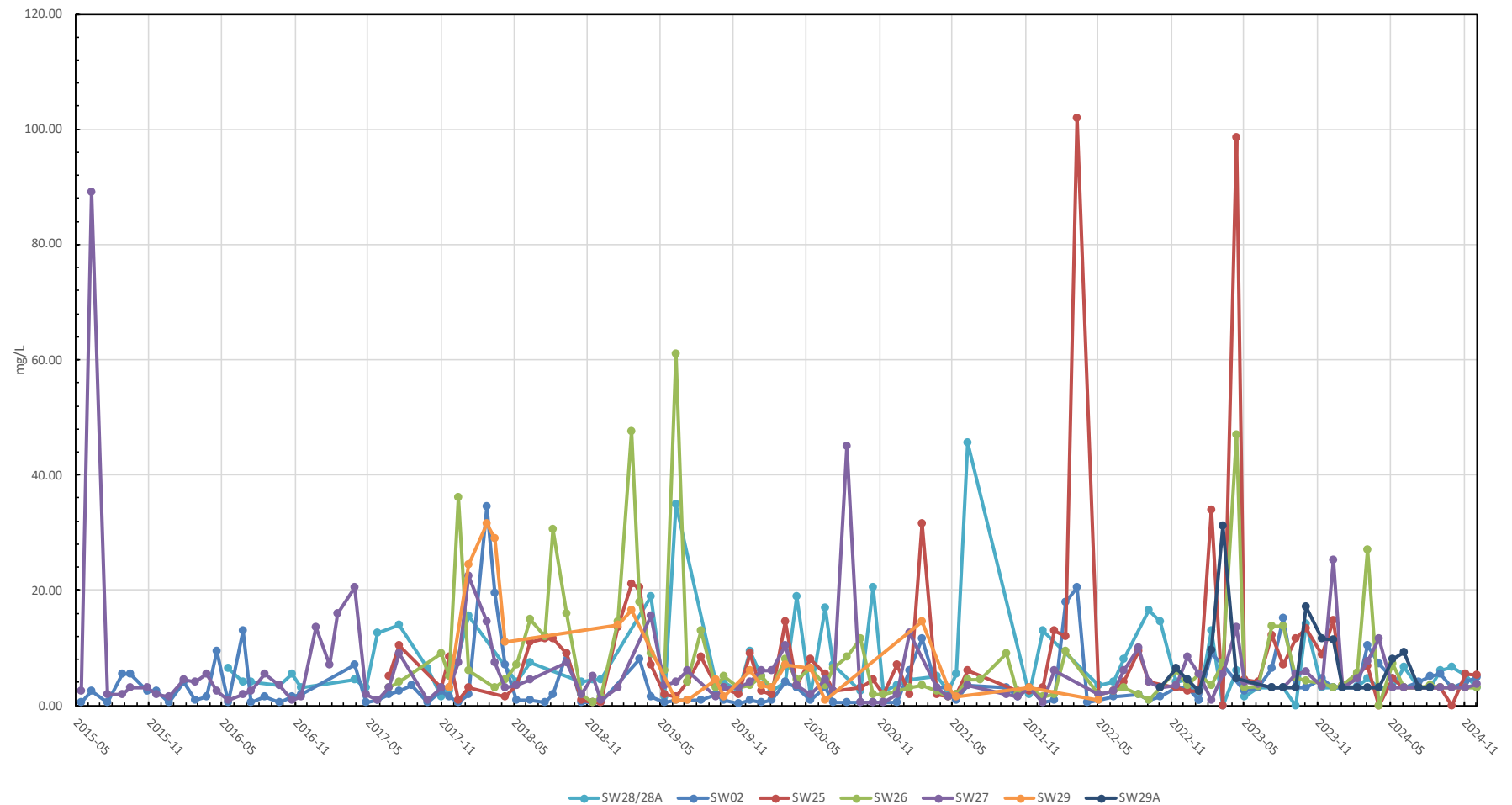


Figure 37: Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2024

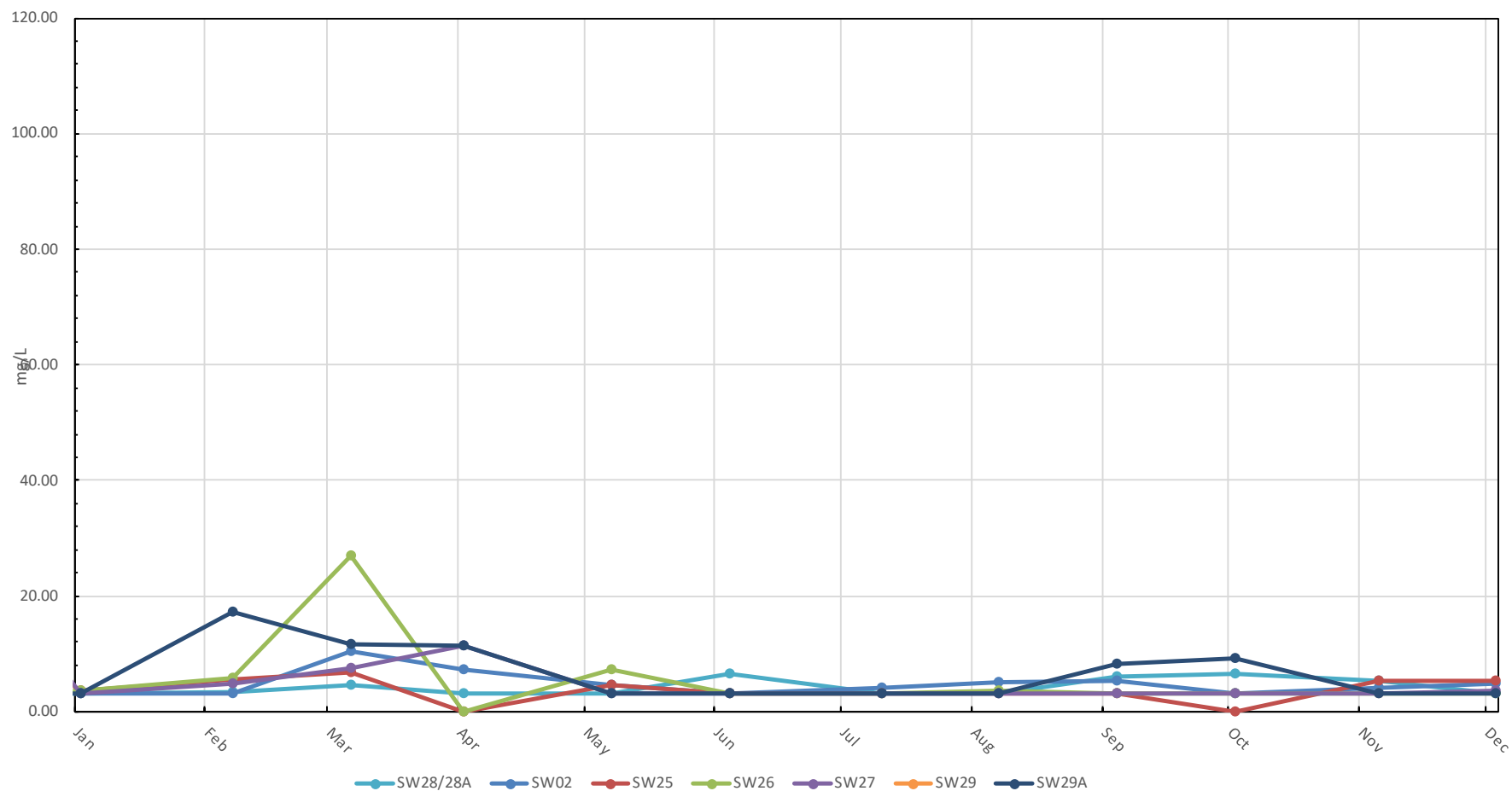


Figure 38: Rainy River Mine, Total Arsenic in Area Creeks 2015-2024

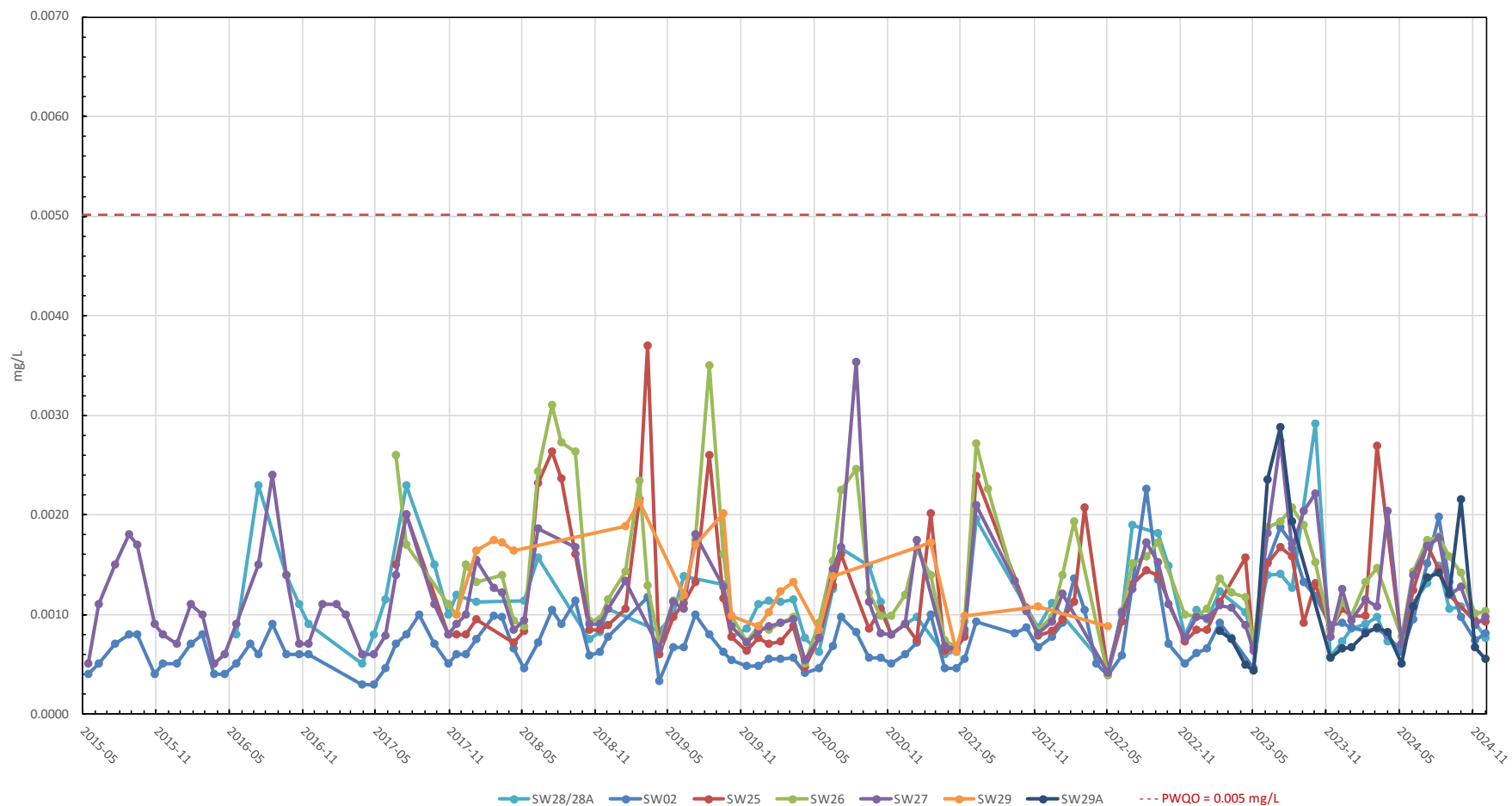


Figure 39: Rainy River Mine, Total Arsenic in Area Creeks 2024

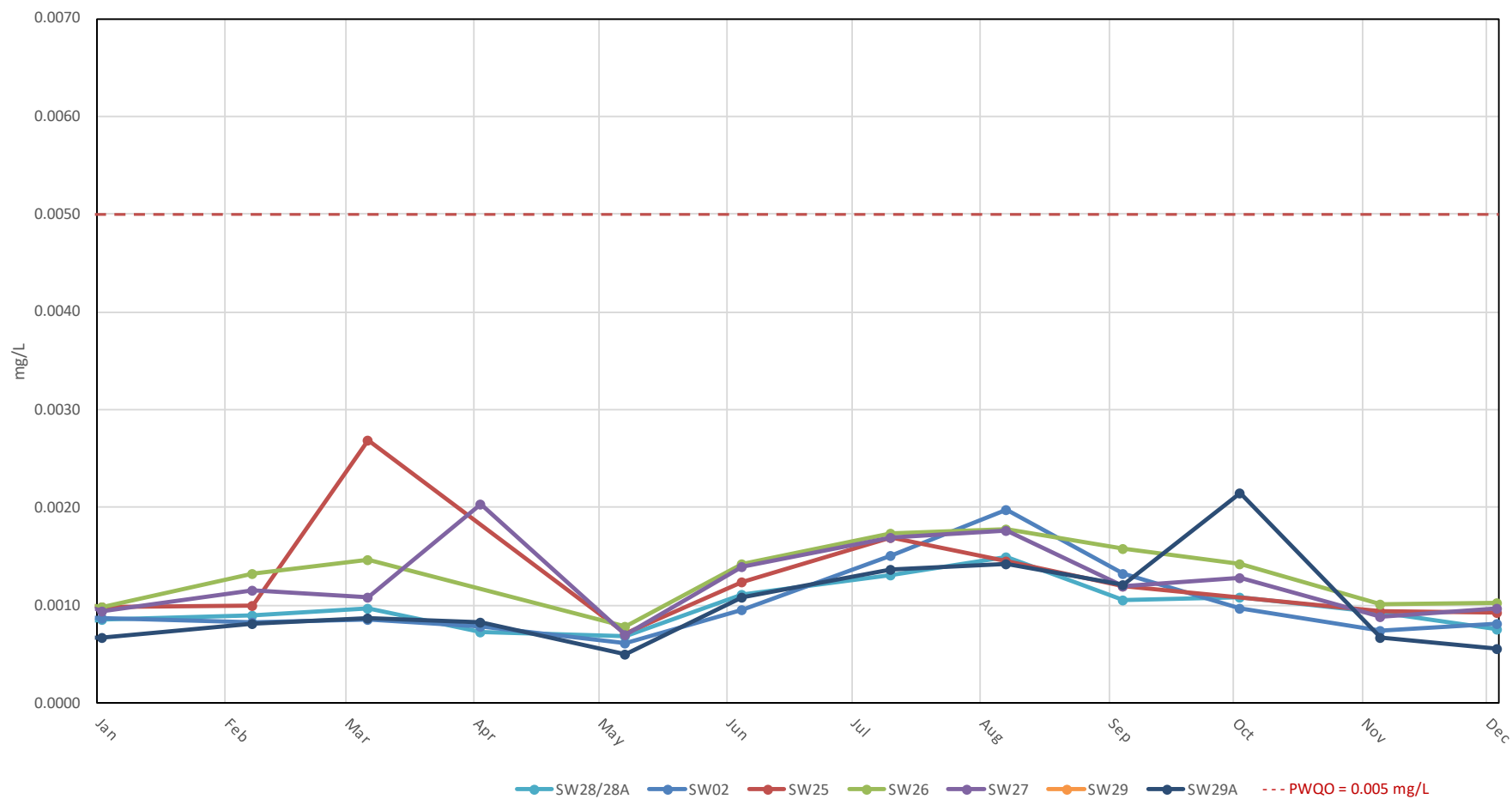


Figure 40: Rainy River Mine, Total Copper in Area Creeks 2015-2024

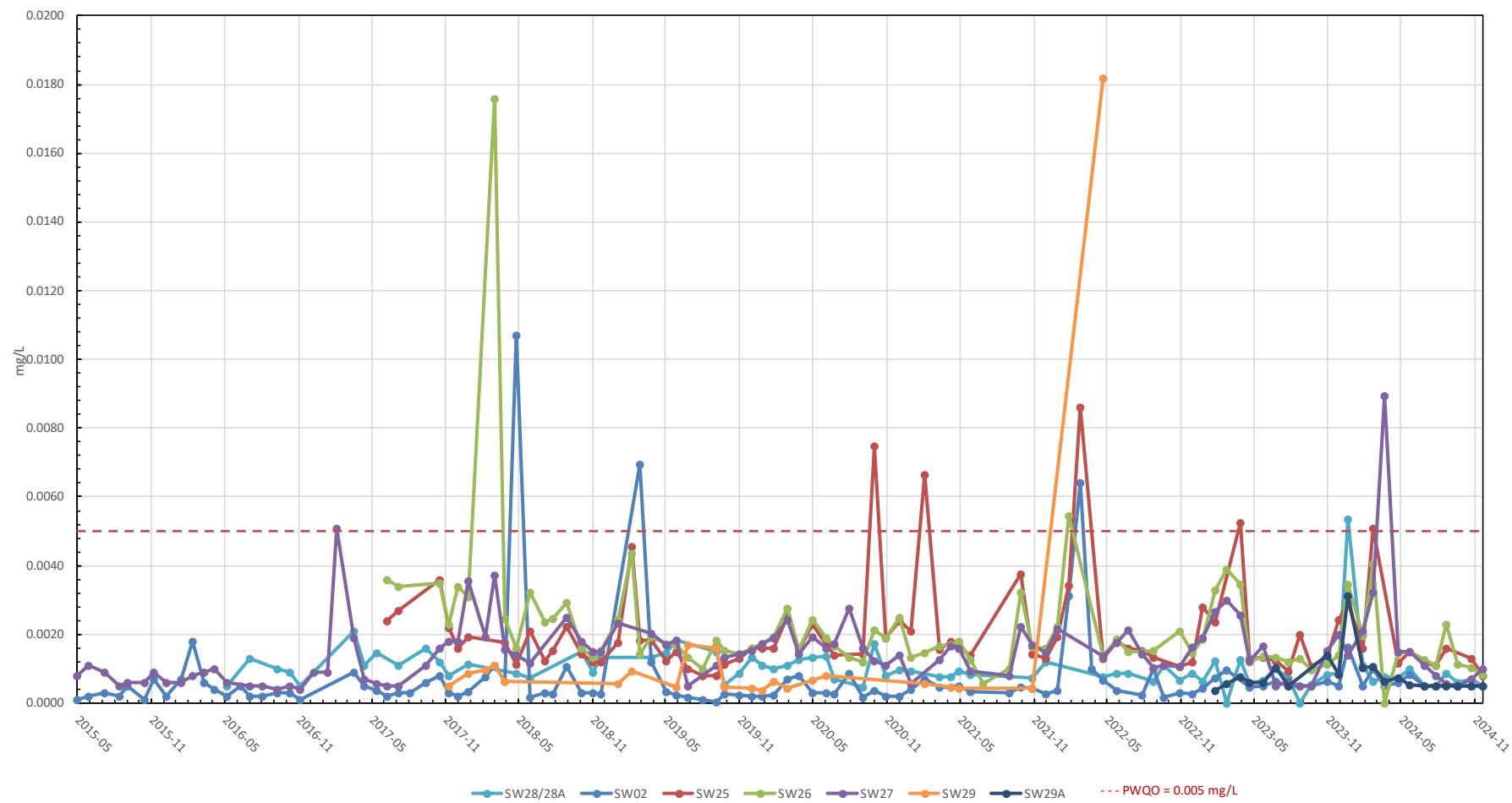


Figure 41: Rainy River Mine, Total Copper in Area Creeks 2024

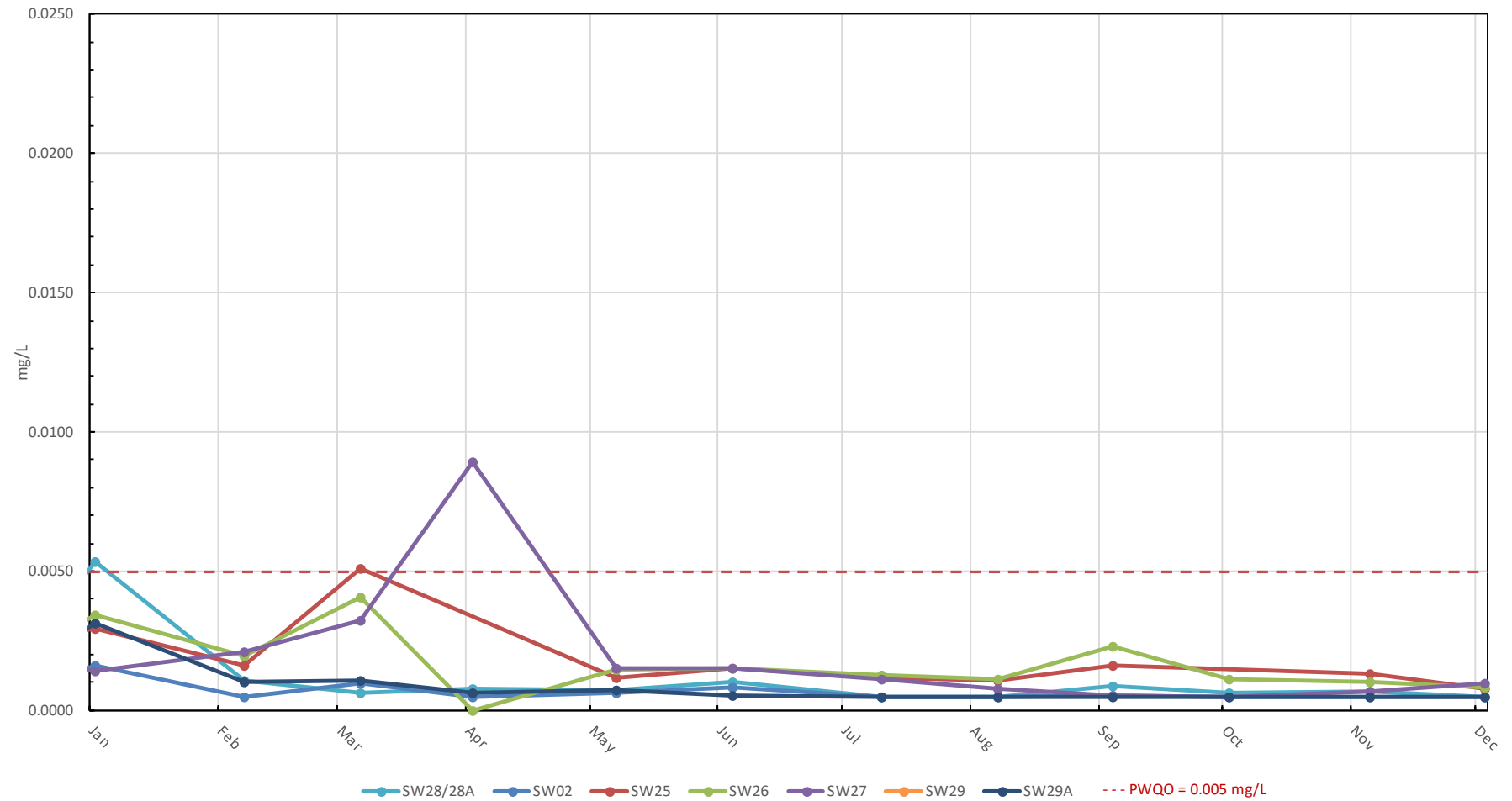




Figure 42: Rainy River Mine, Total Lead in Area Creeks 2015-2024

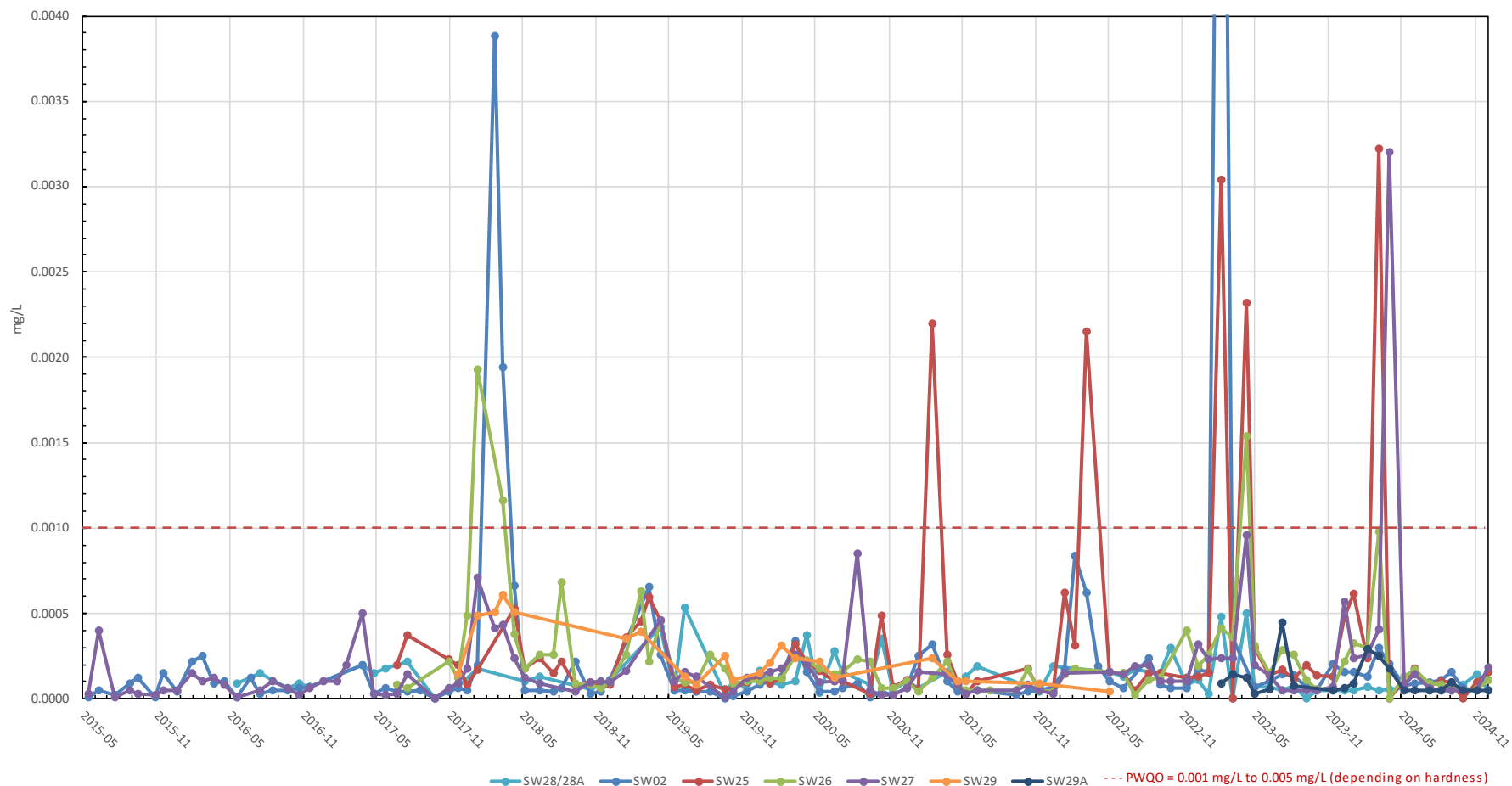


Figure 43: Rainy River Mine, Total Lead in Area Creeks 2024

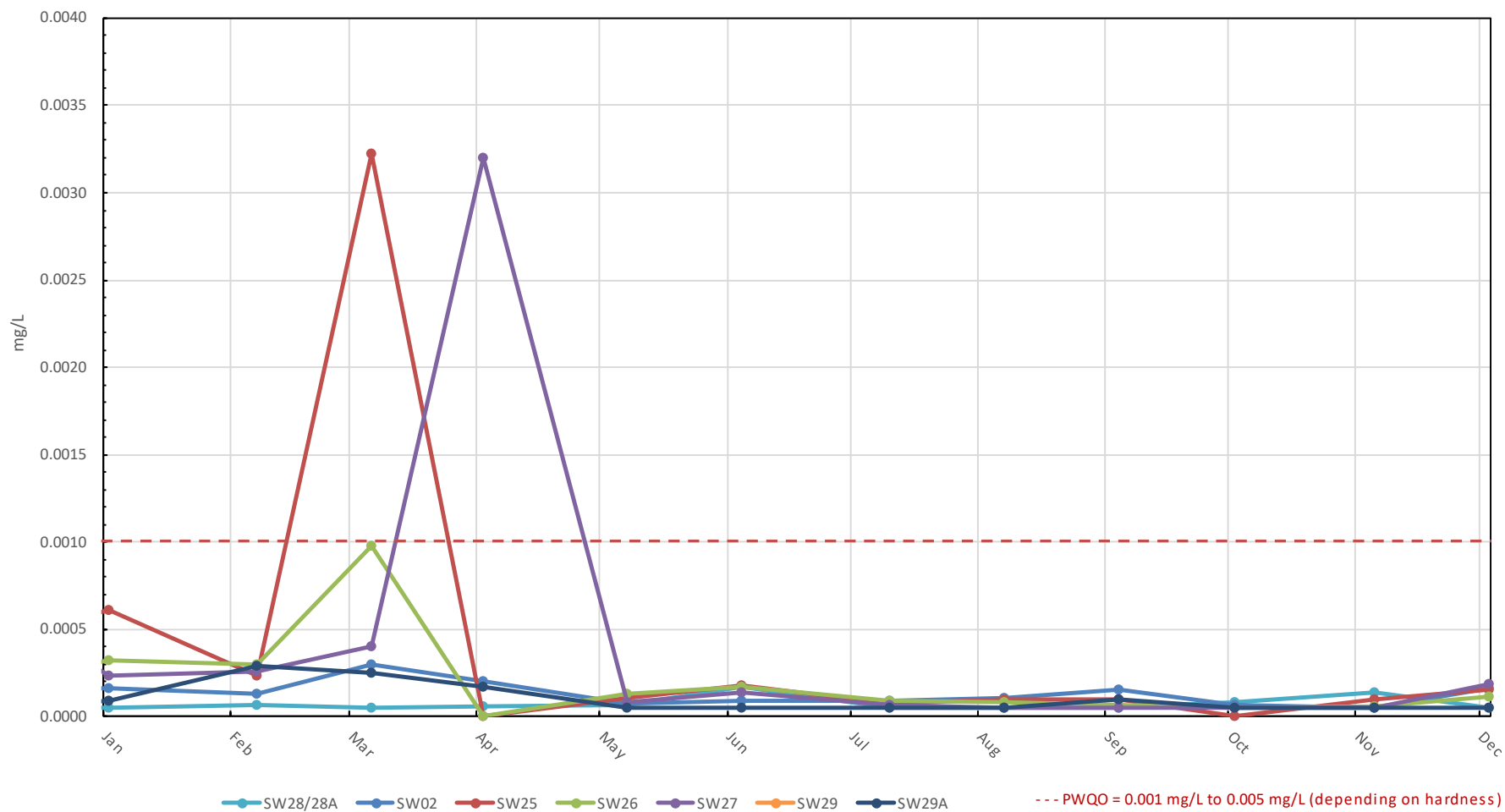


Figure 44: Rainy River Mine, Total Nickel in Area Creeks 2015-2024

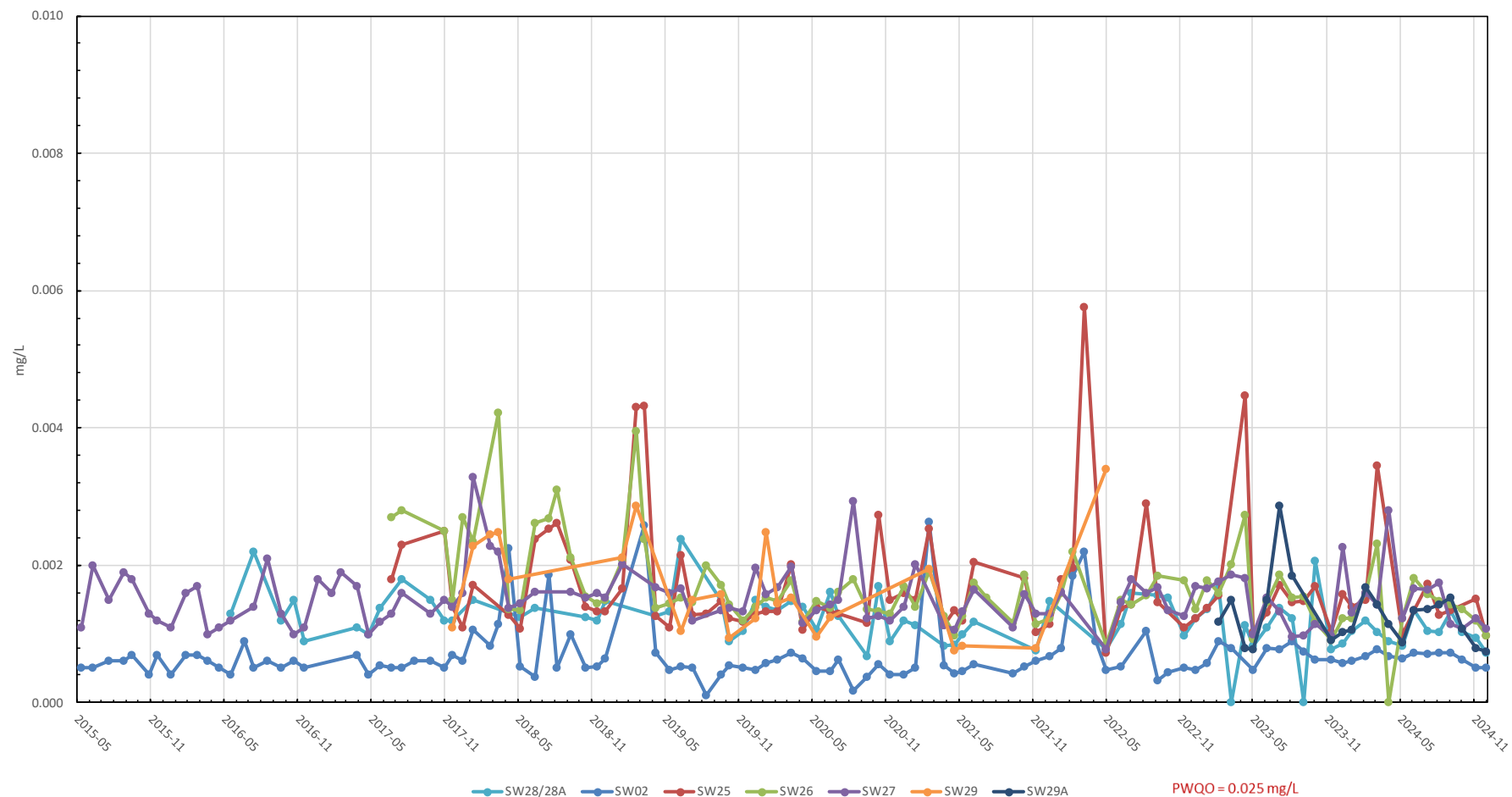


Figure 45: Rainy River Mine, Total Nickel in Area Creeks 2024

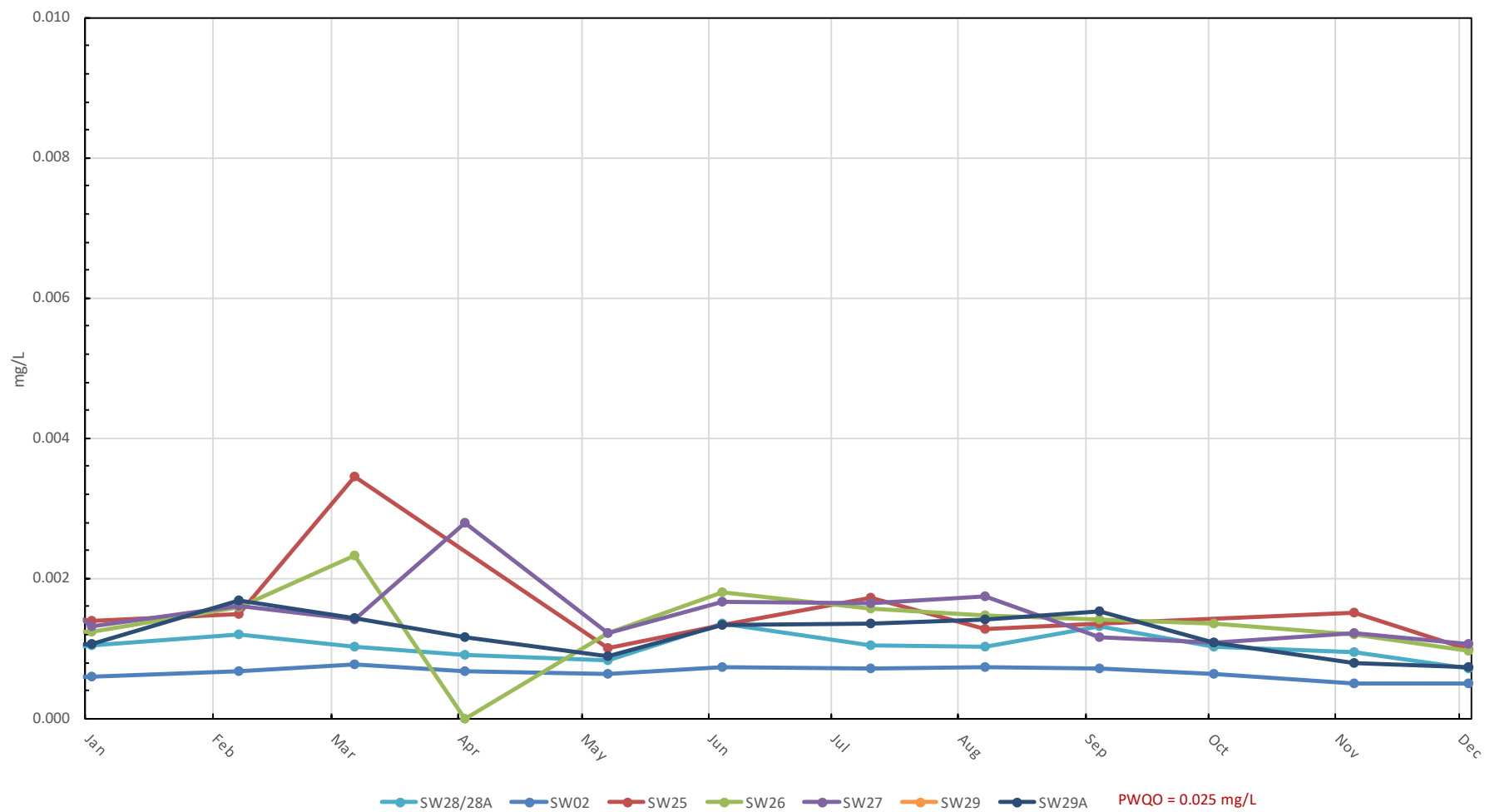


Figure 46: Rainy River Mine, Total Phosphorus in Area Creeks 2017-2024

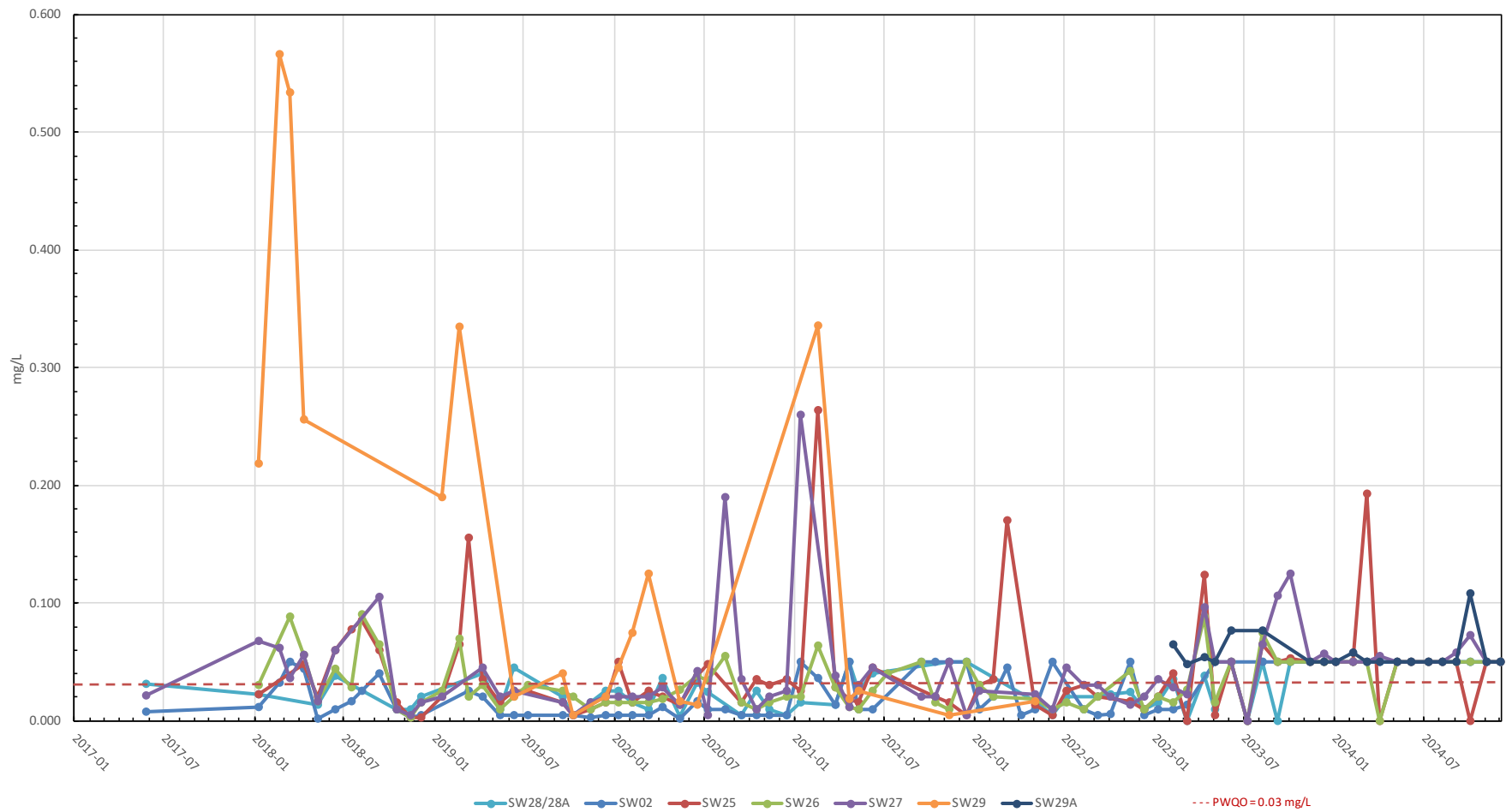


Figure 47: Rainy River Mine, Total Phosphorus in Area Creeks 2024

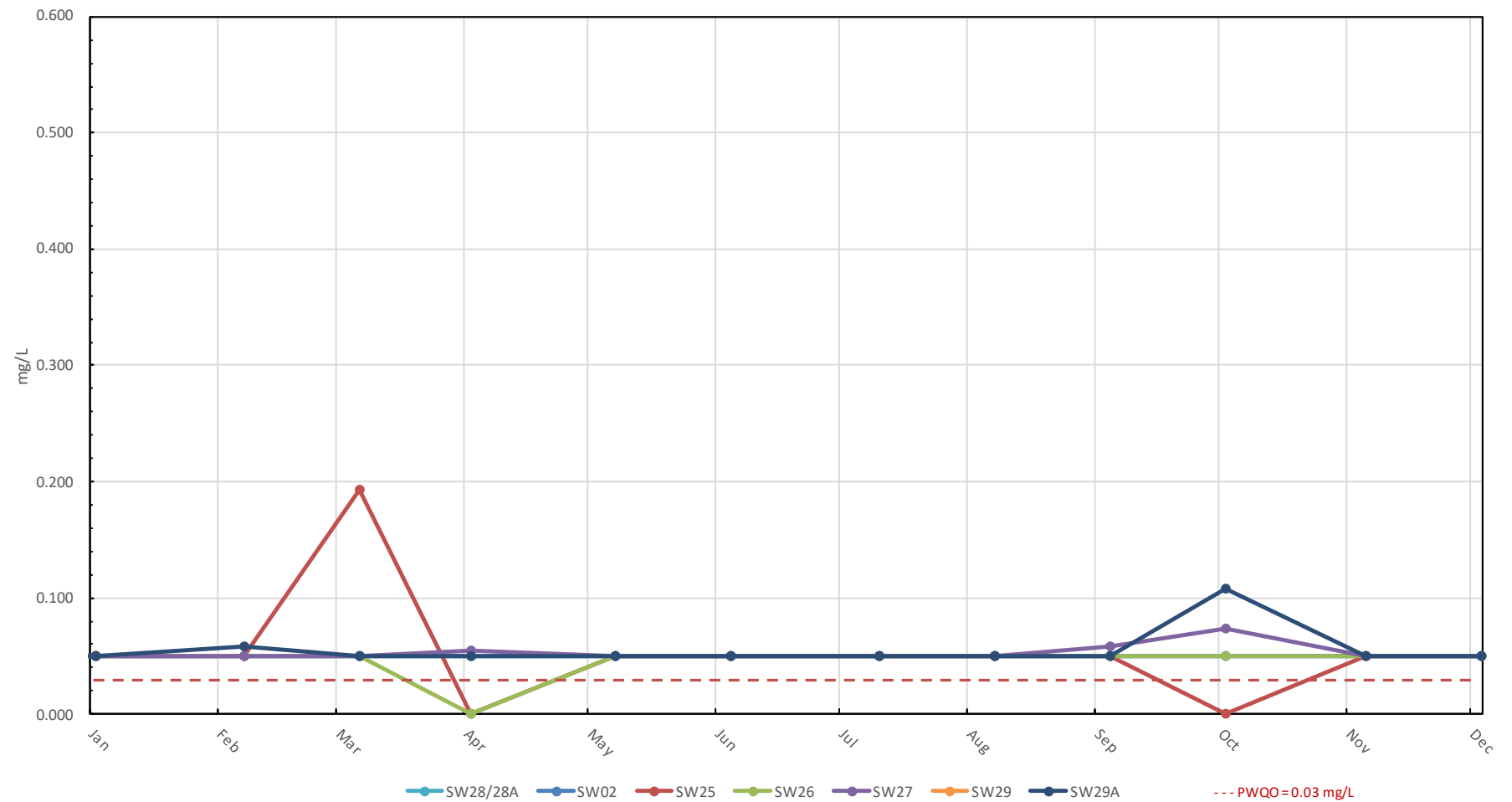


Figure 48: Rainy River Mine, Total Zinc in Area Creeks 2015-2024

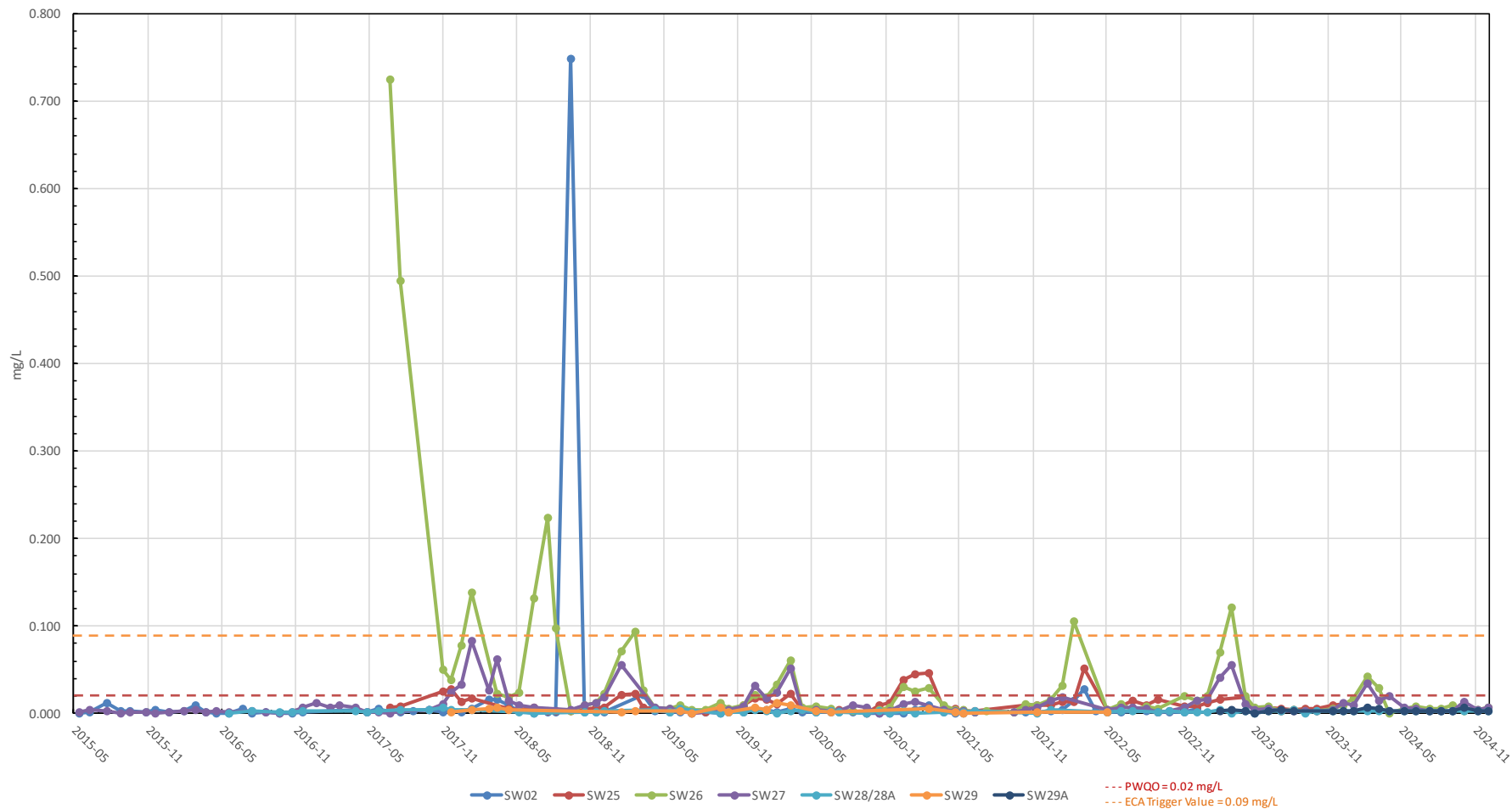


Figure 49: Rainy River Mine, Total Zinc in Area Creeks 2024

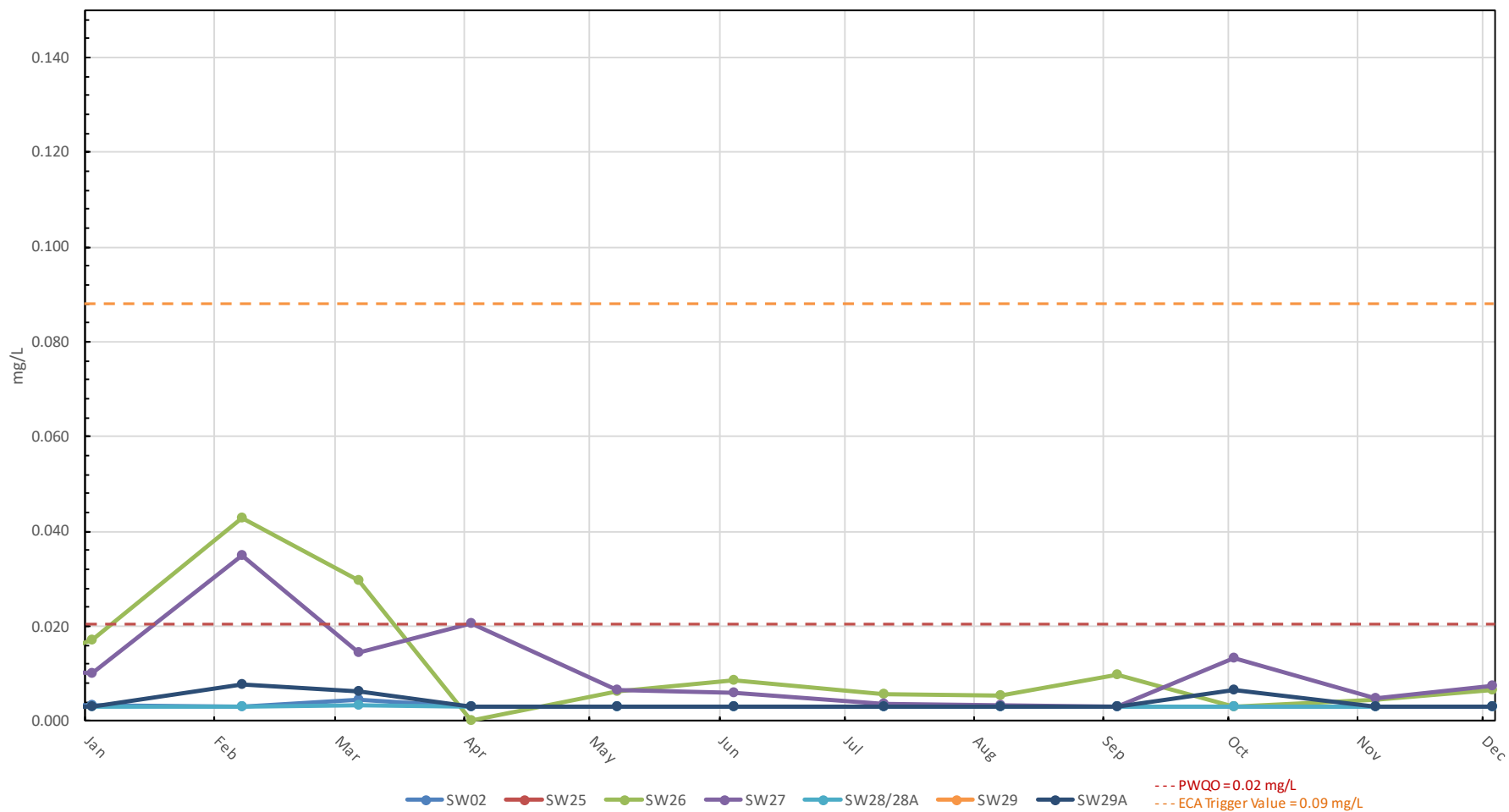




Figure 50: Rainy River Mine, Total Mercury in Area Creeks 2015-2024

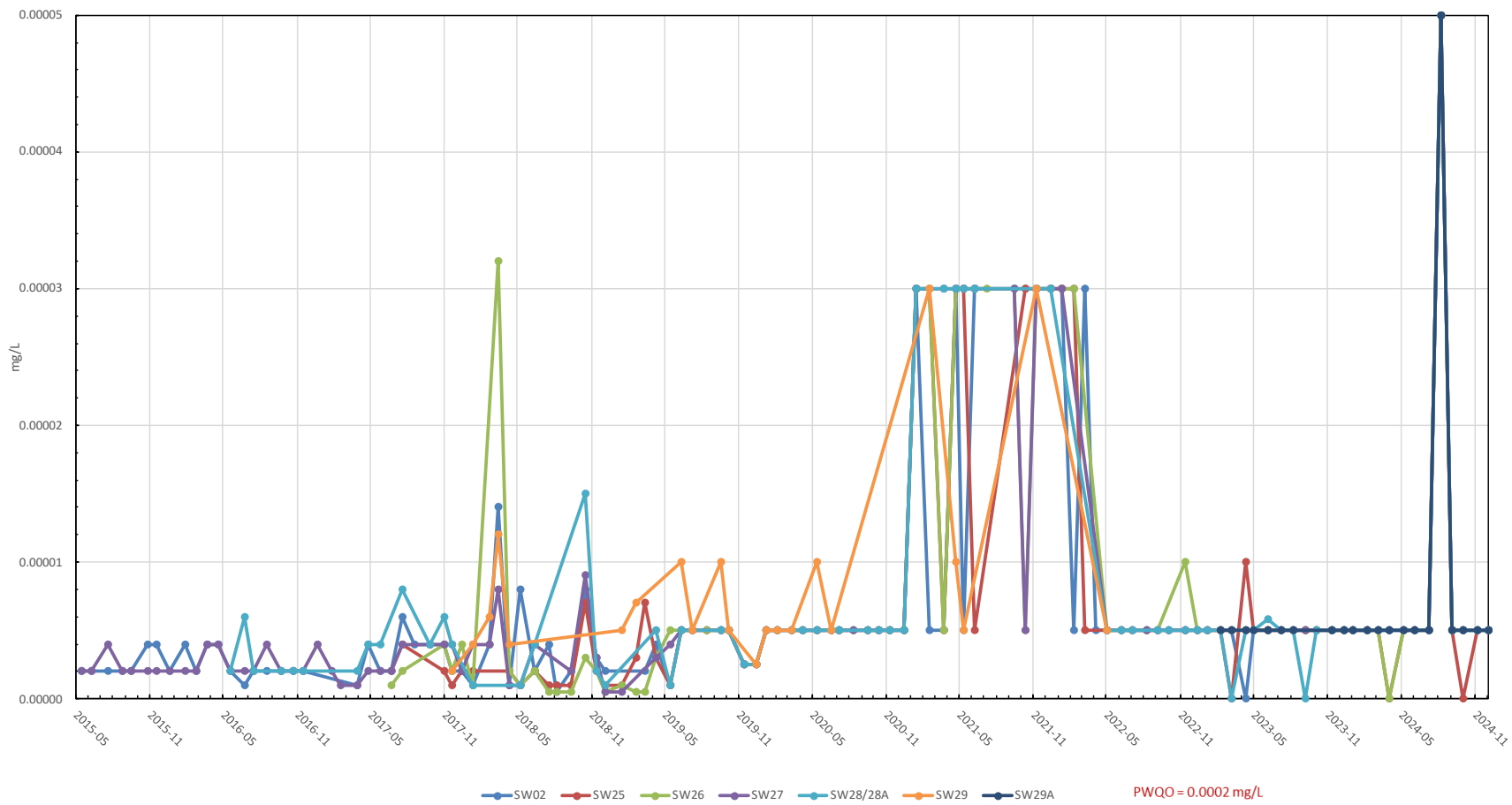


Figure 51: Rainy River Mine, Total Mercury in Area Creeks 2024

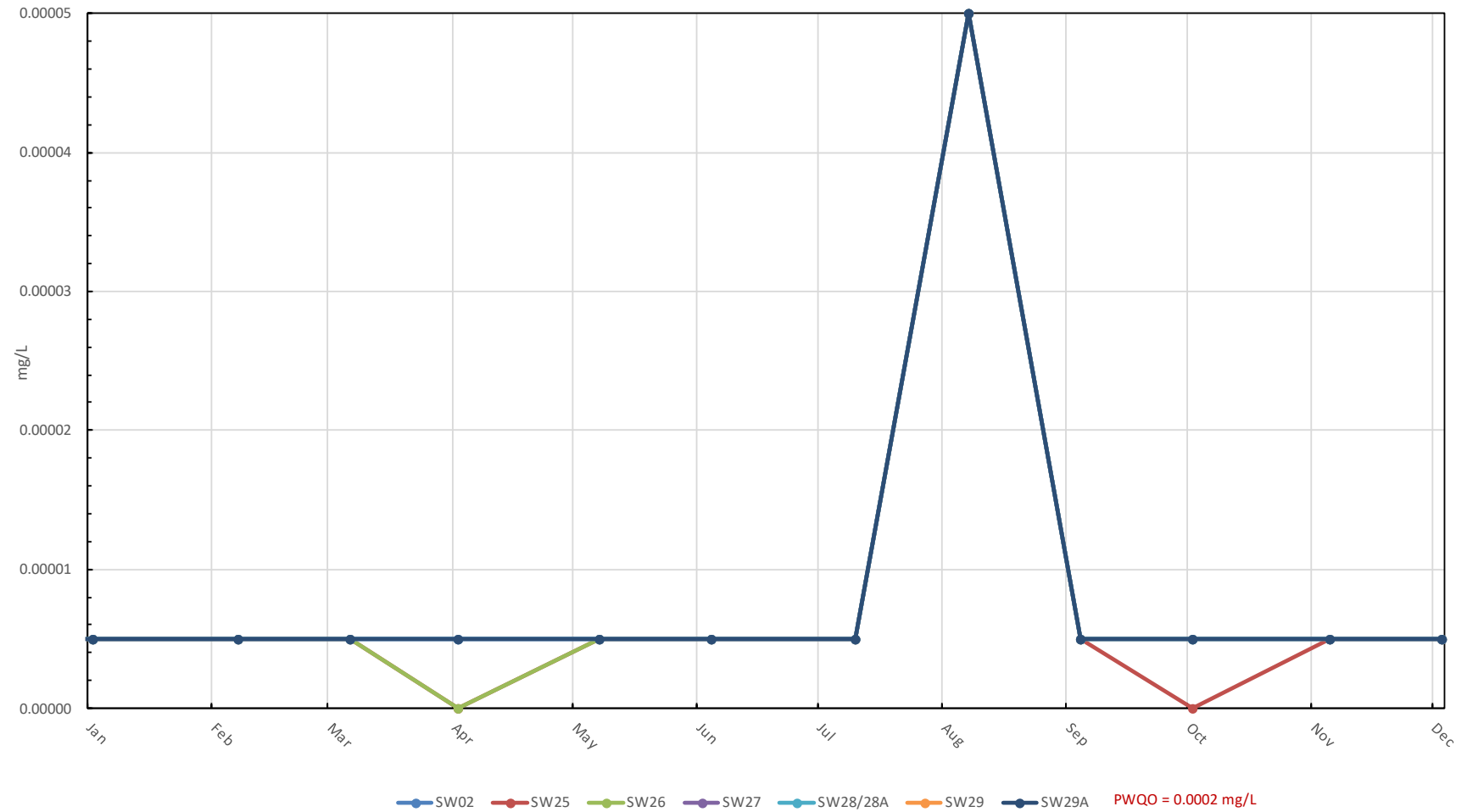


Figure 52: Rainy River Mine, Un-ionized Ammonia in Area Creeks 2015-2024

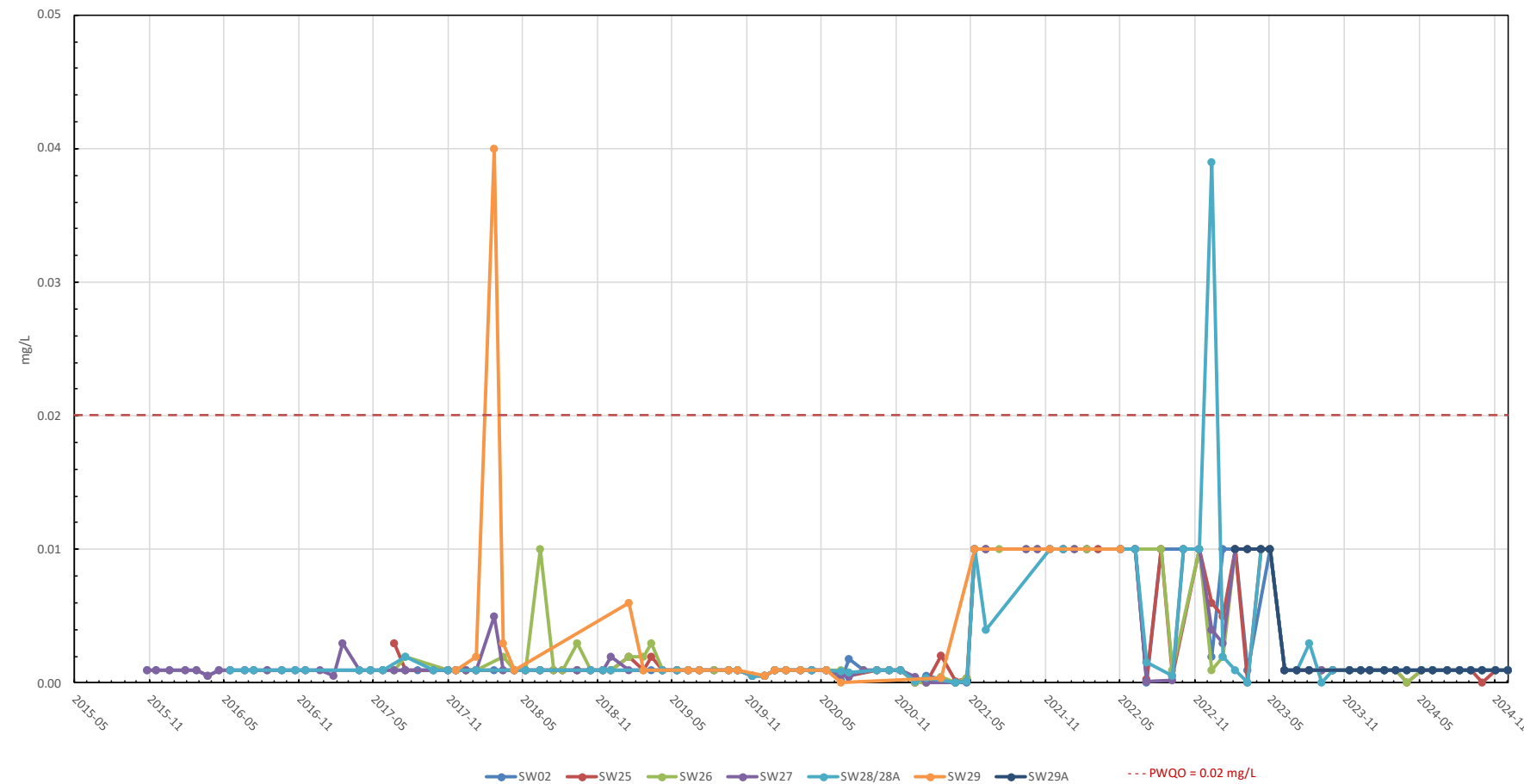


Figure 53: Rainy River Mine, Un-ionized Ammonia in Area Creeks 2024

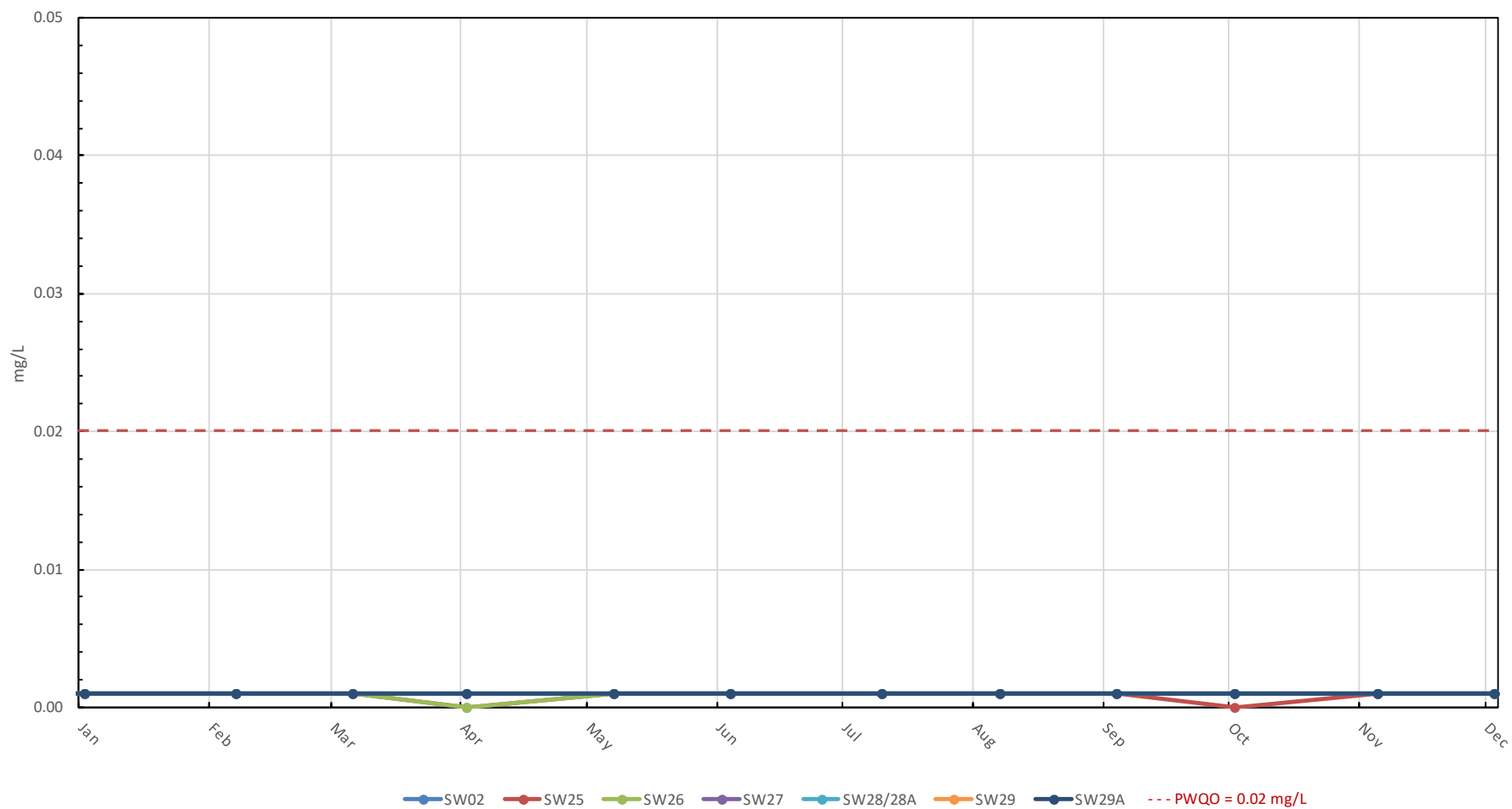


Figure 54: Rainy River Mine, Free Cyanide in Area Creeks 2018-2024

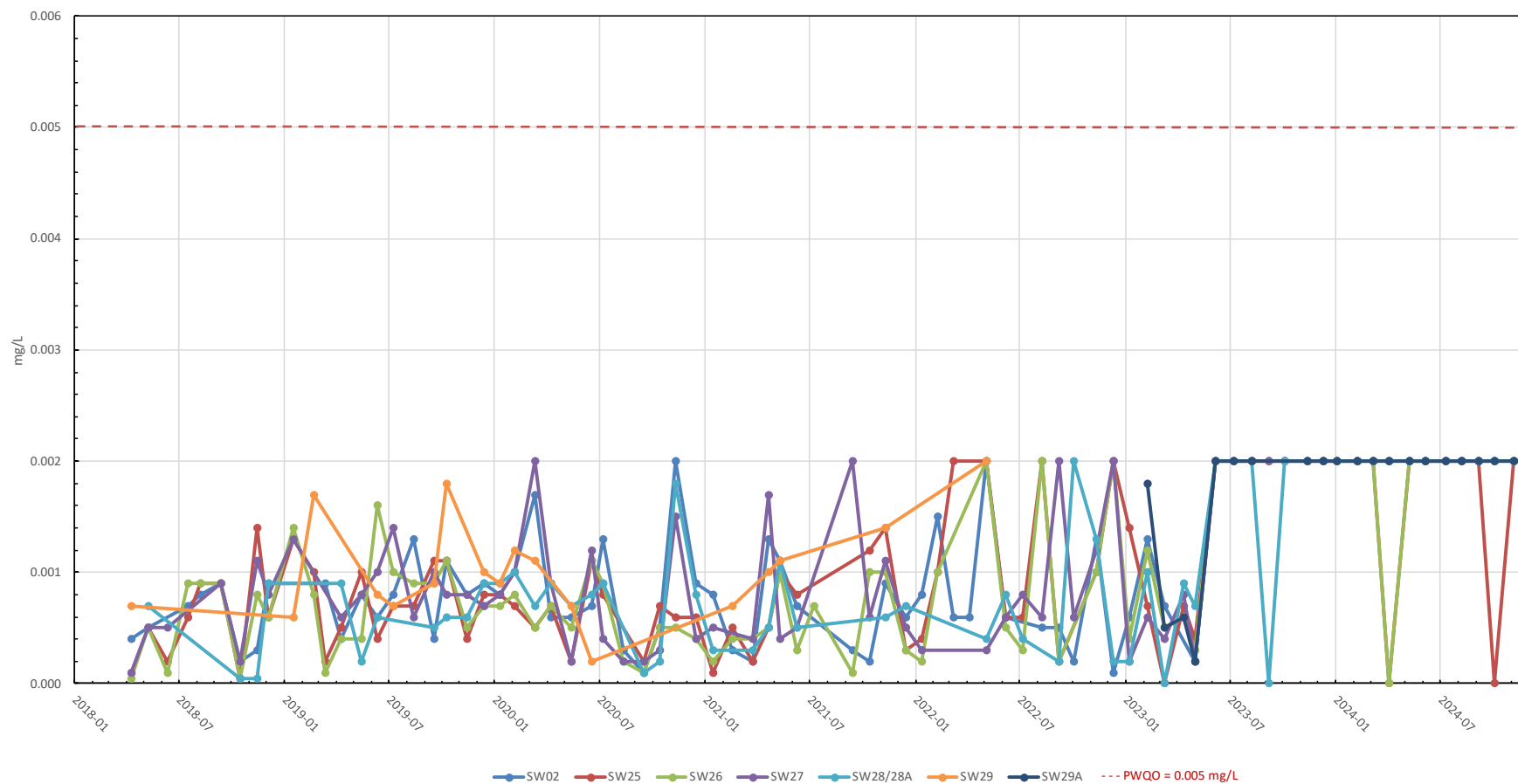


Figure 55: Rainy River Mine, Free Cyanide in Area Creeks 2024

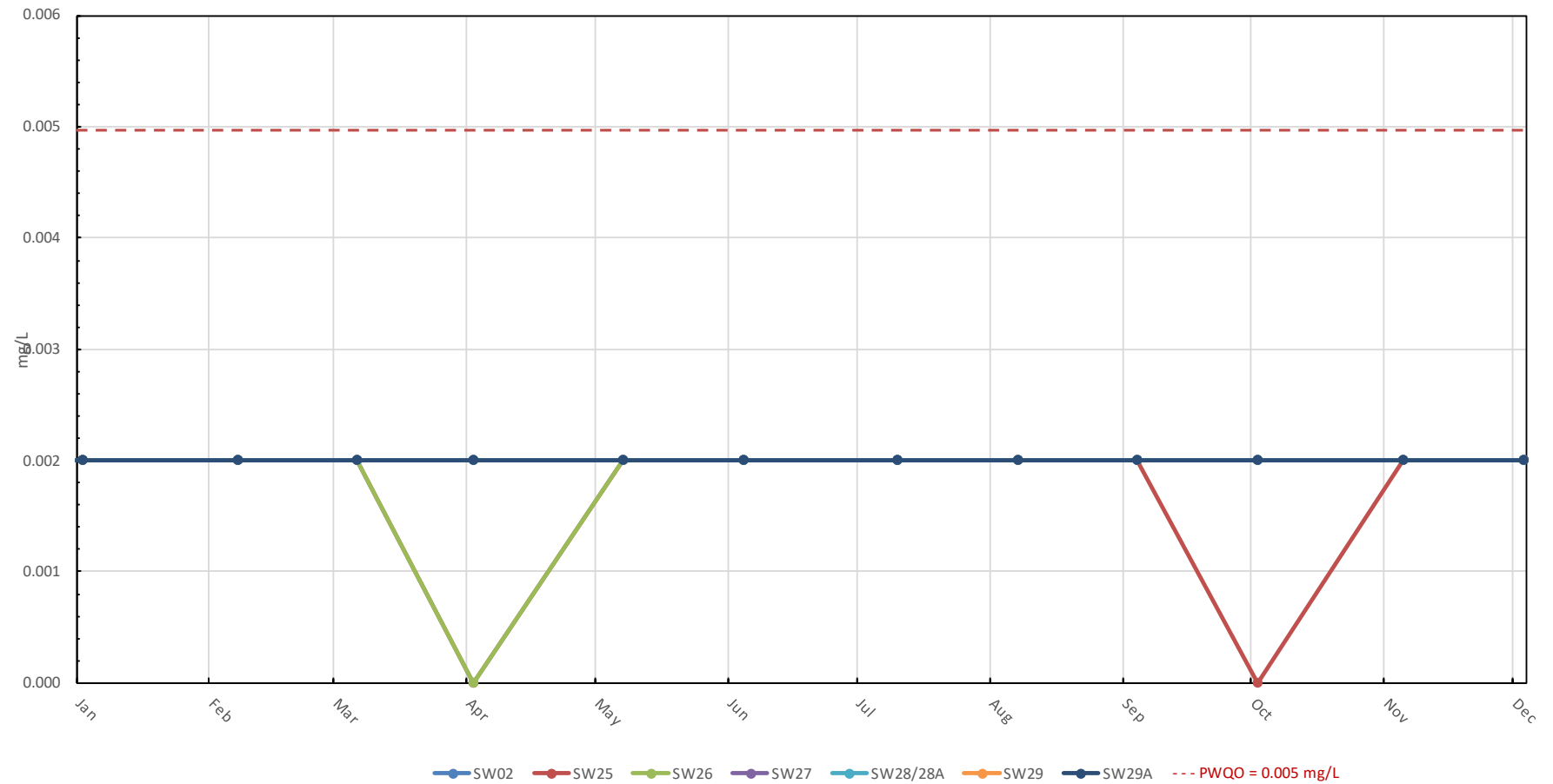


Figure 56: Rainy River Mine, Total Aluminum in Area Creeks 2015-2024

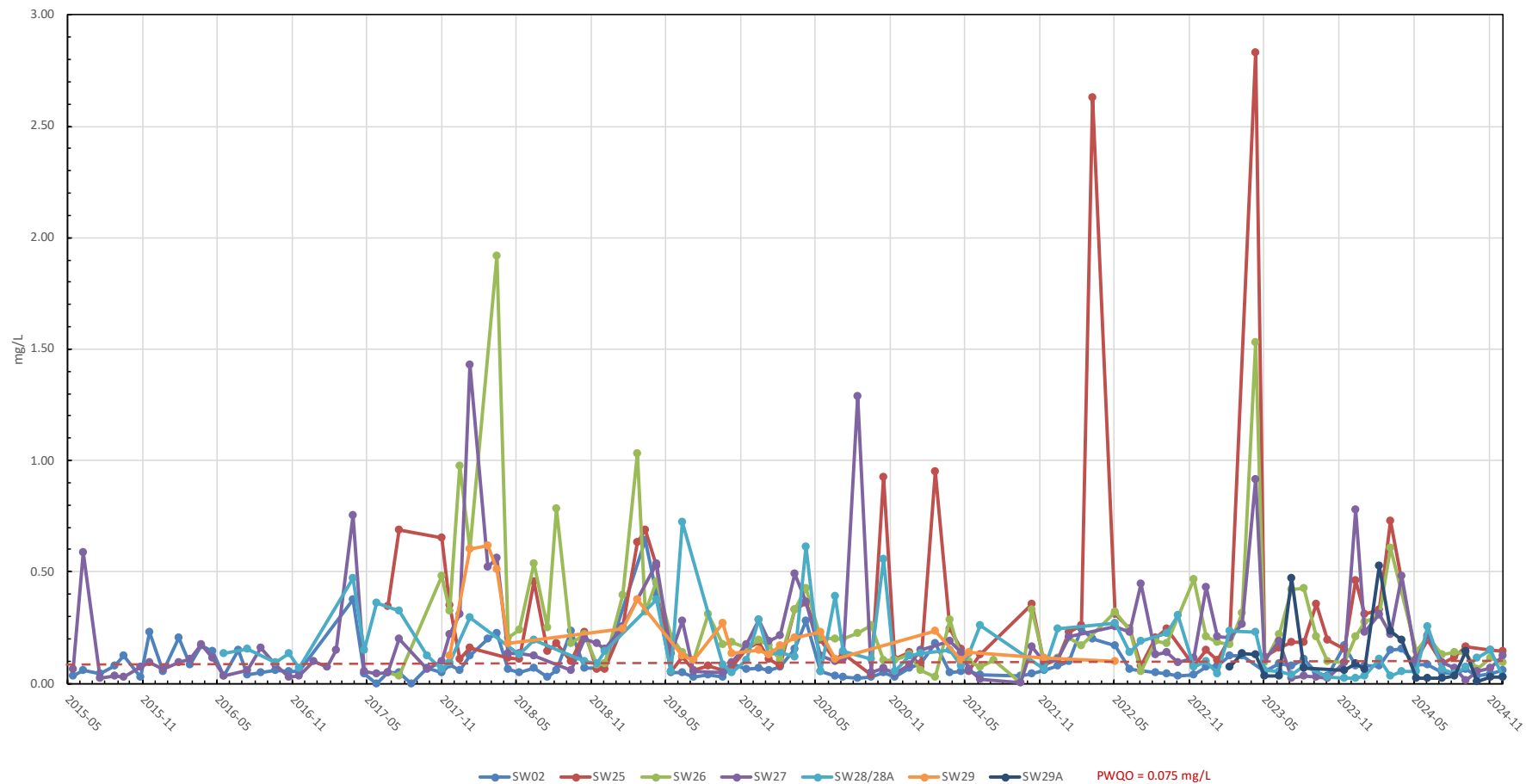


Figure 57: Rainy River Mine, Total Aluminum in Area Creeks 2024

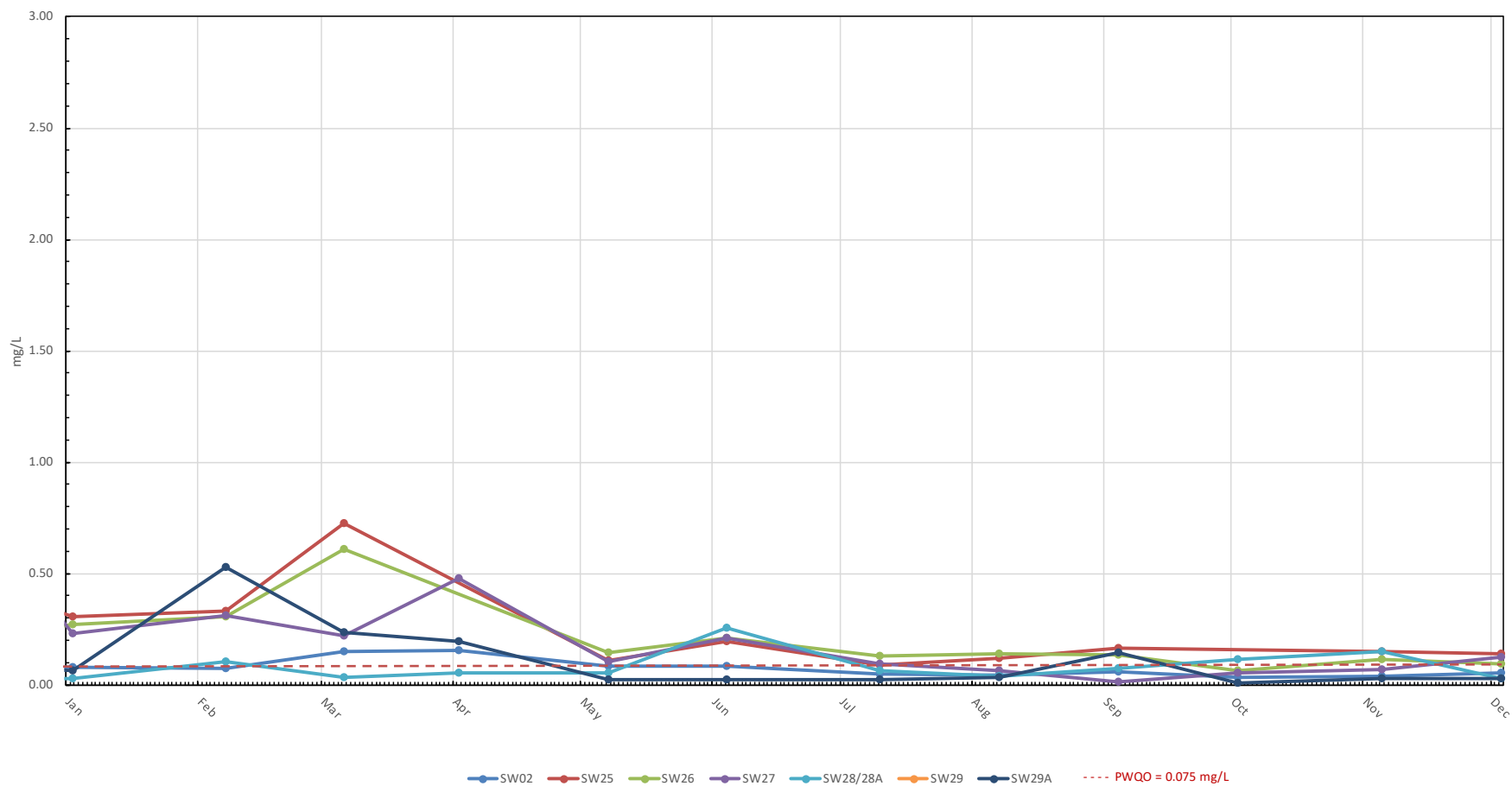




Figure 58: Rainy River Mine, Total Cadmium in Area Creeks 2015-2024

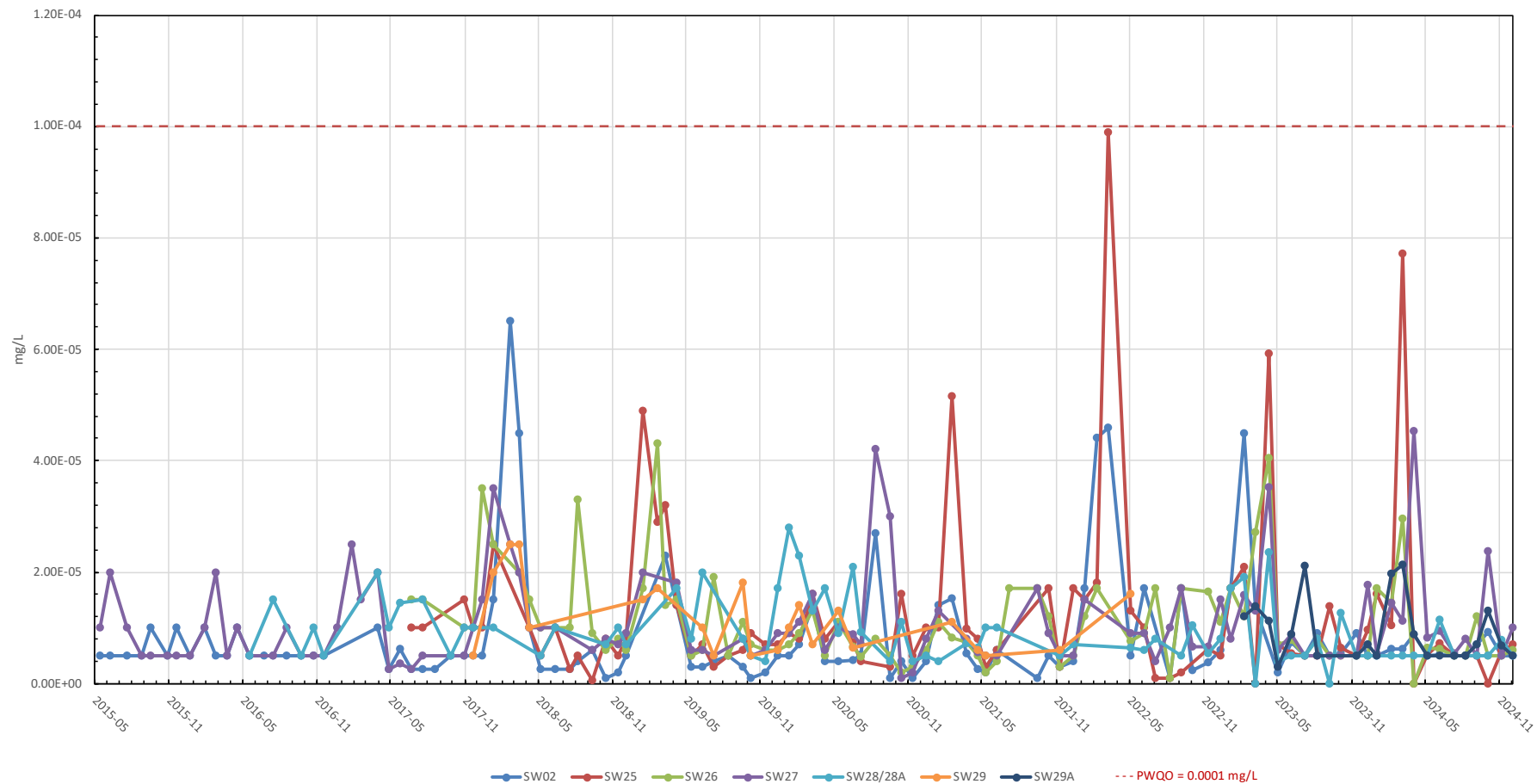


Figure 59: Rainy River Mine, Total Cadmium in Area Creeks 2024

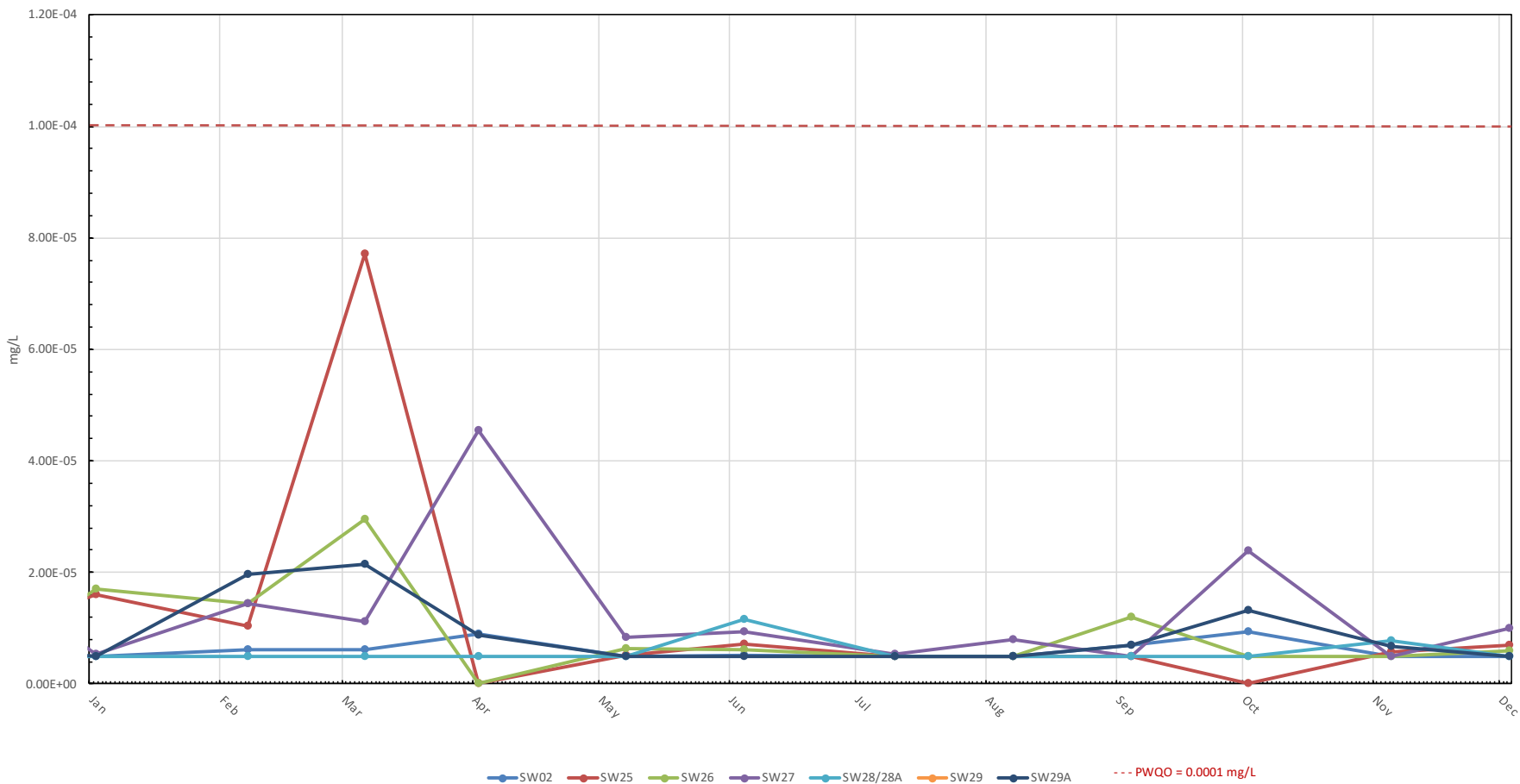


Figure 60: Rainy River Mine, Total Chromium in Area Creeks 2015-2024

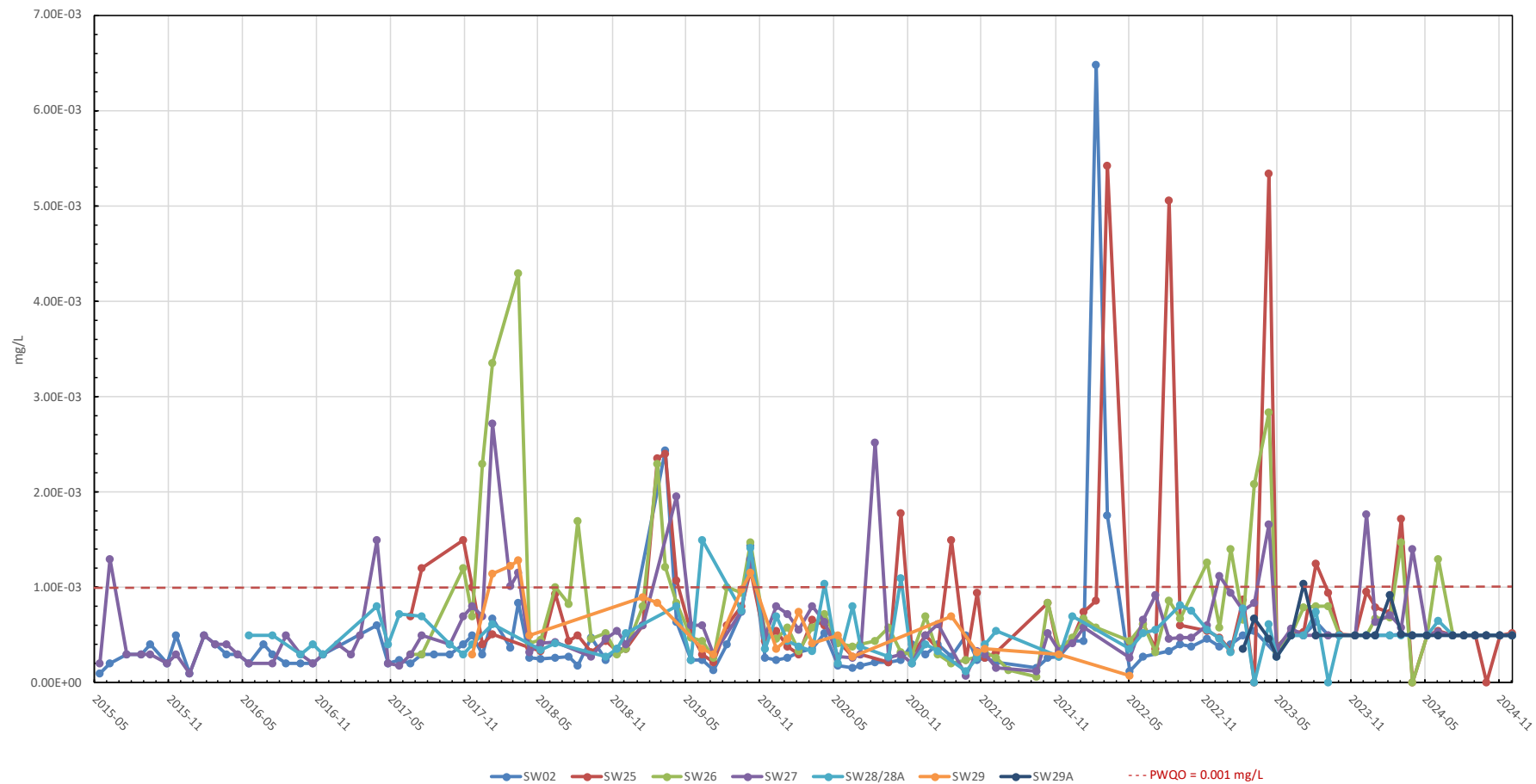


Figure 61: Rainy River Mine, Total Chromium in Area Creeks 2024

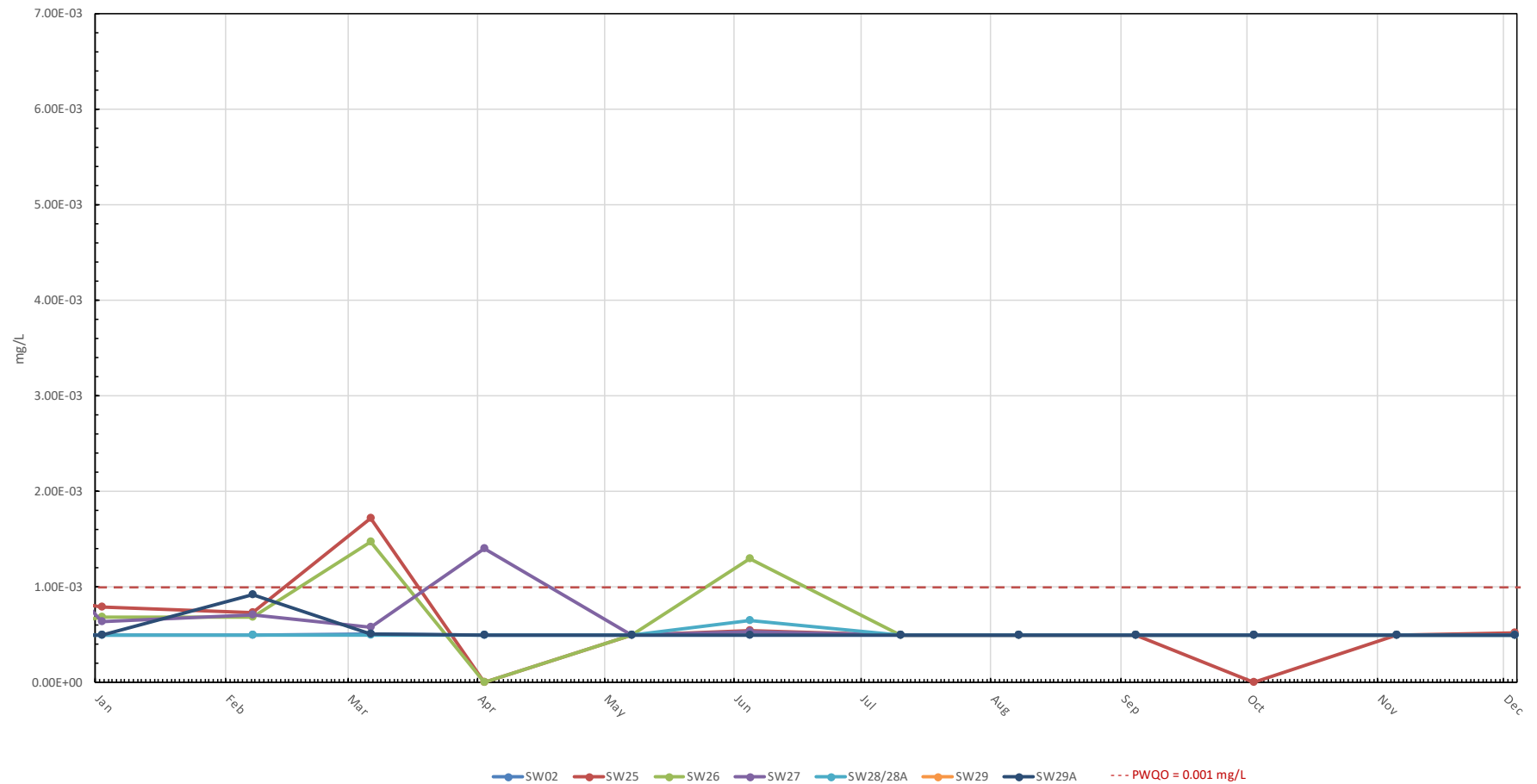


Figure 62: Rainy River Mine, Total Cobalt in Area Creeks 2015-2024

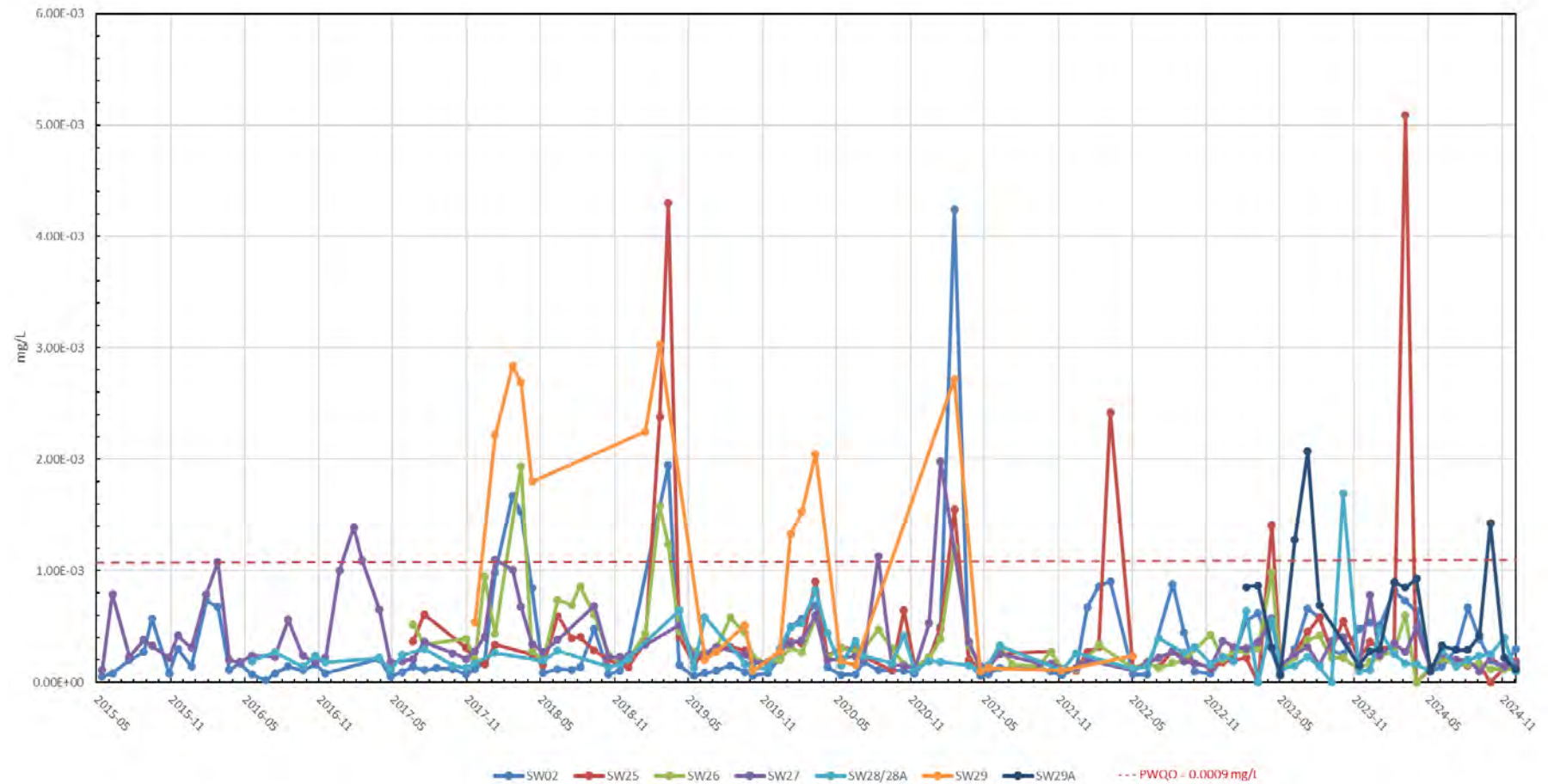


Figure 63: Rainy River Mine, Total Cobalt in Area Creeks 2024

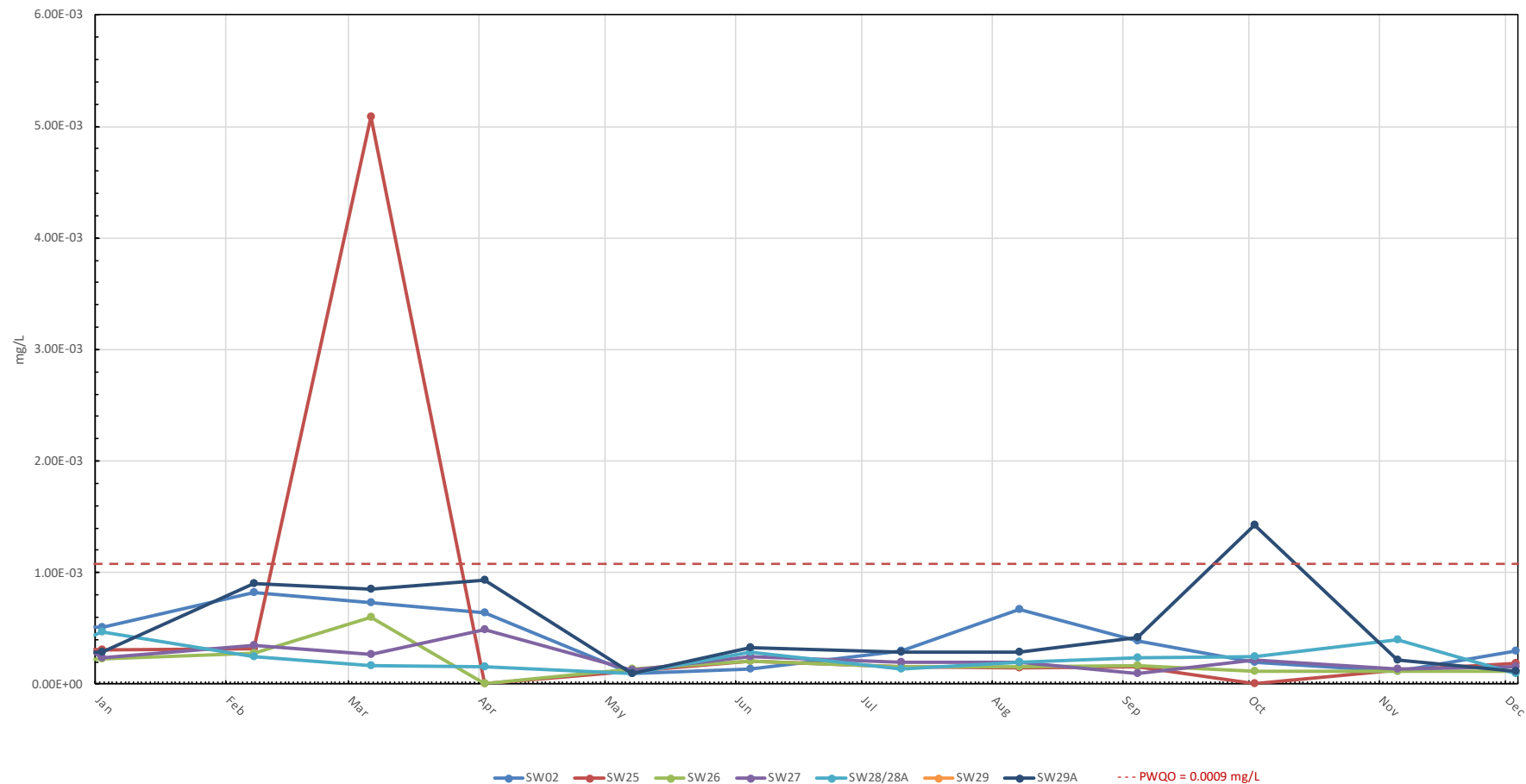


Figure 64: Rainy River Mine, Total Iron in Area Creeks 2015-2024

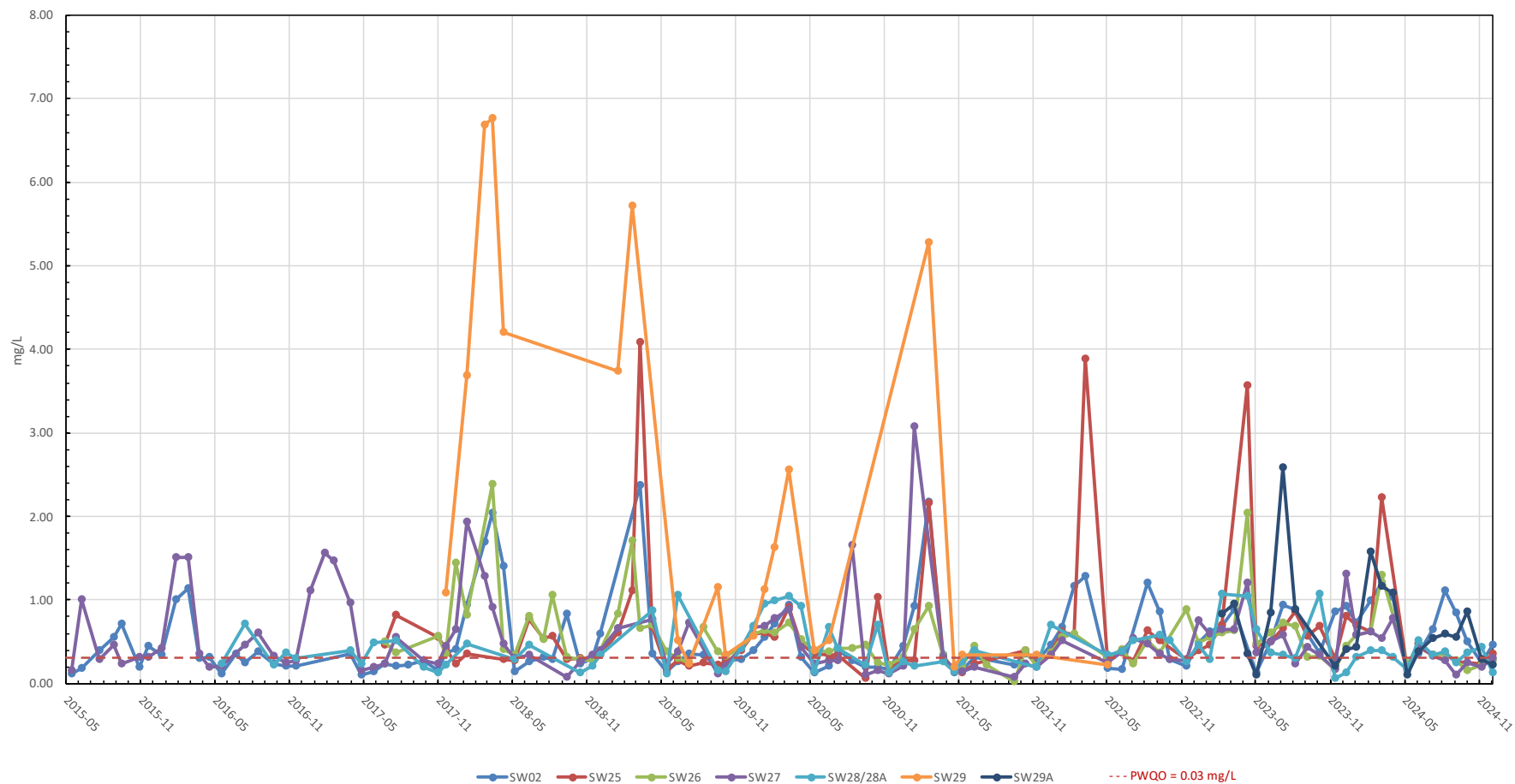


Figure 65: Rainy River Mine, Total Iron in Area Creeks 2024

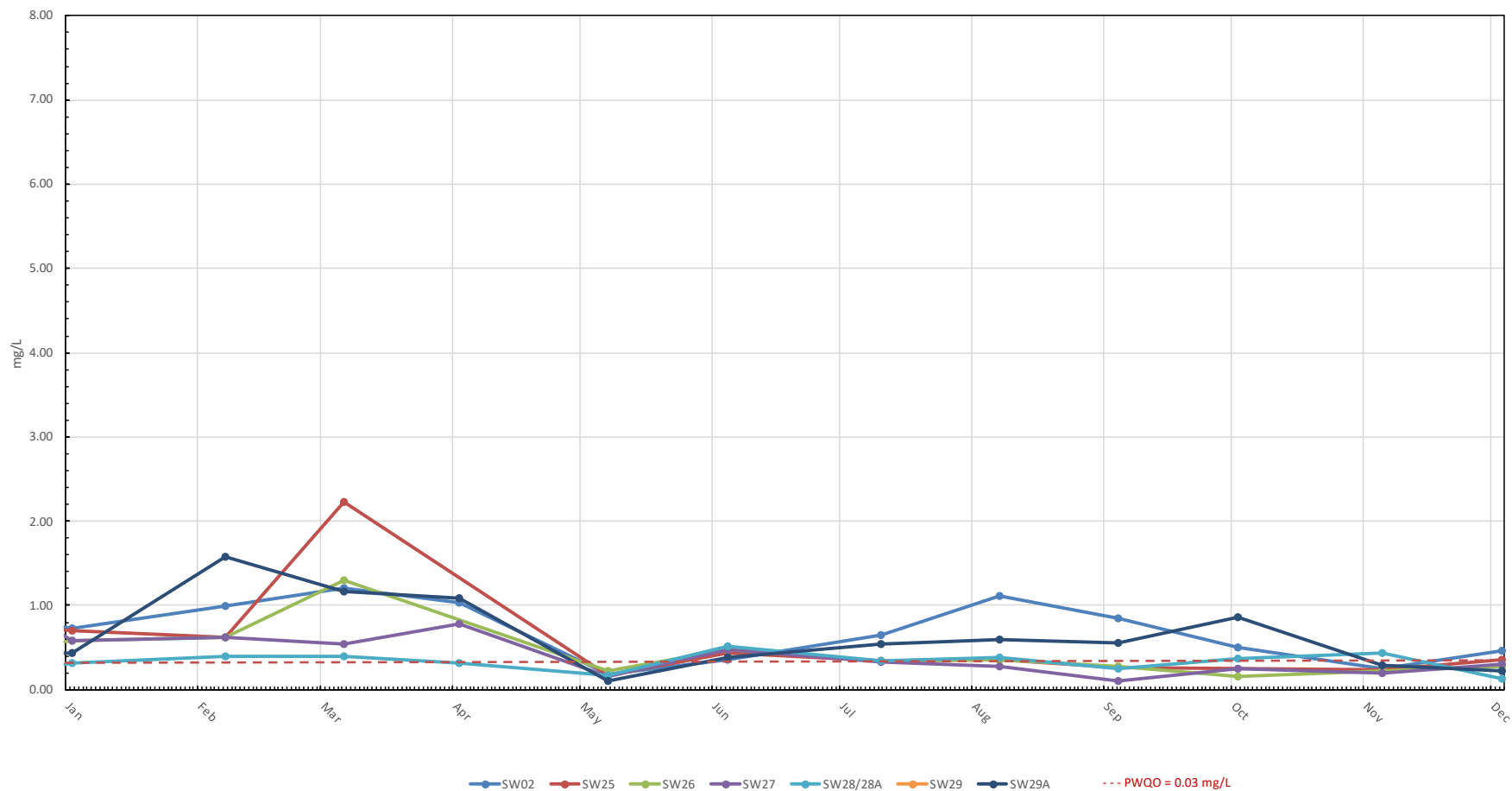




Figure 66: Rainy River Mine, Field pH Levels in Rainy River 2015-2024

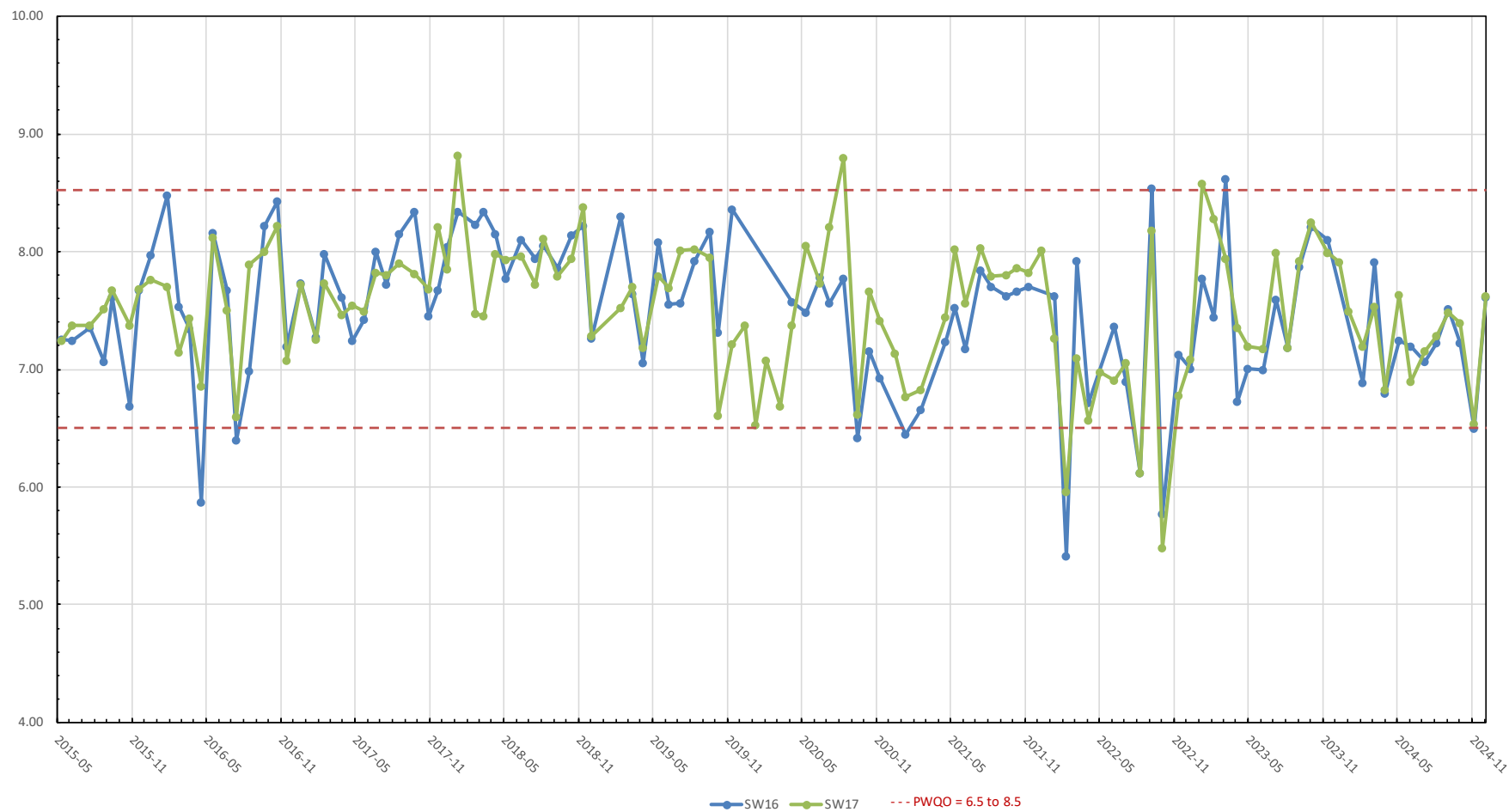


Figure 67: Rainy River Mine, Field pH Levels in Rainy River 2024

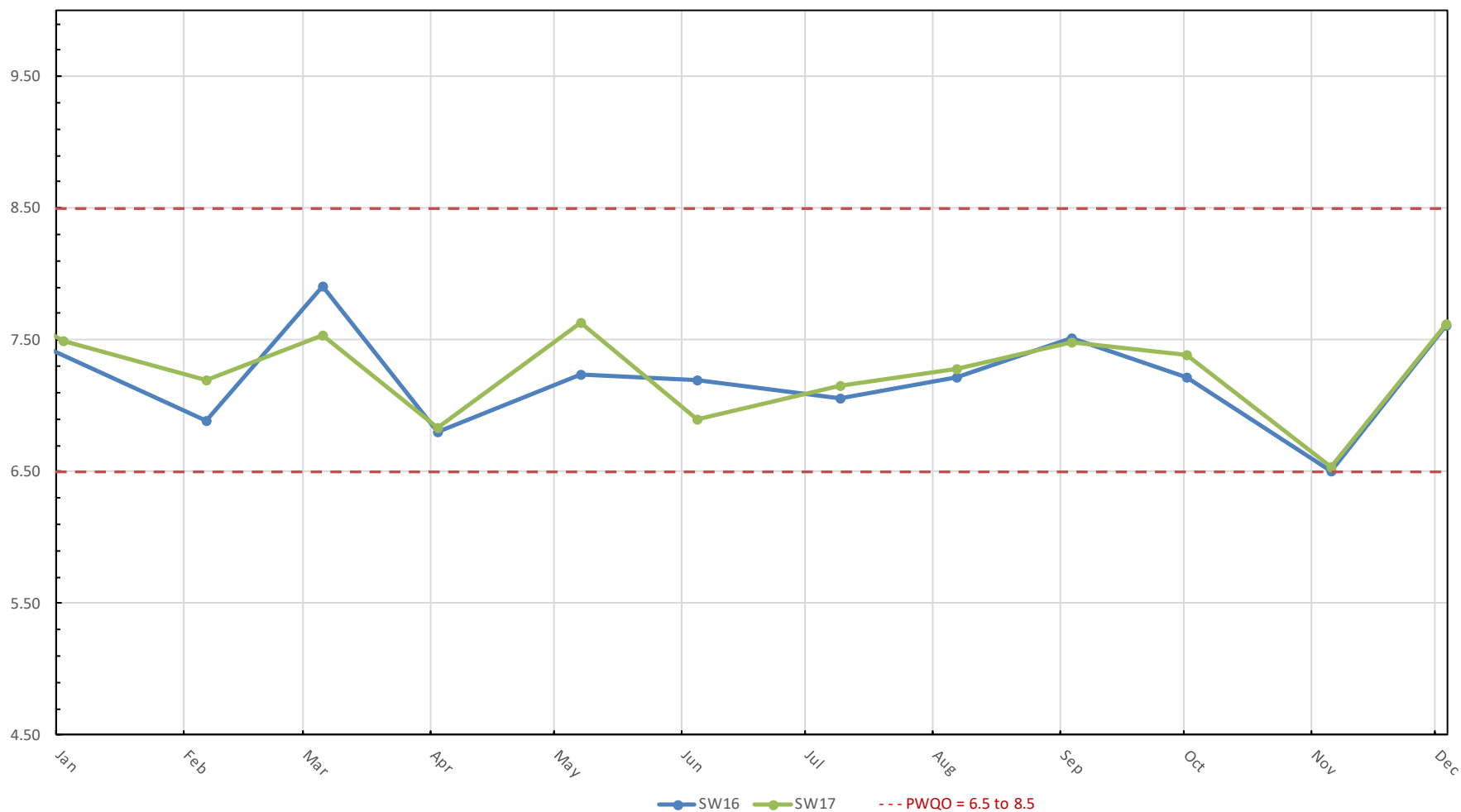


Figure 68: Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2015-2024

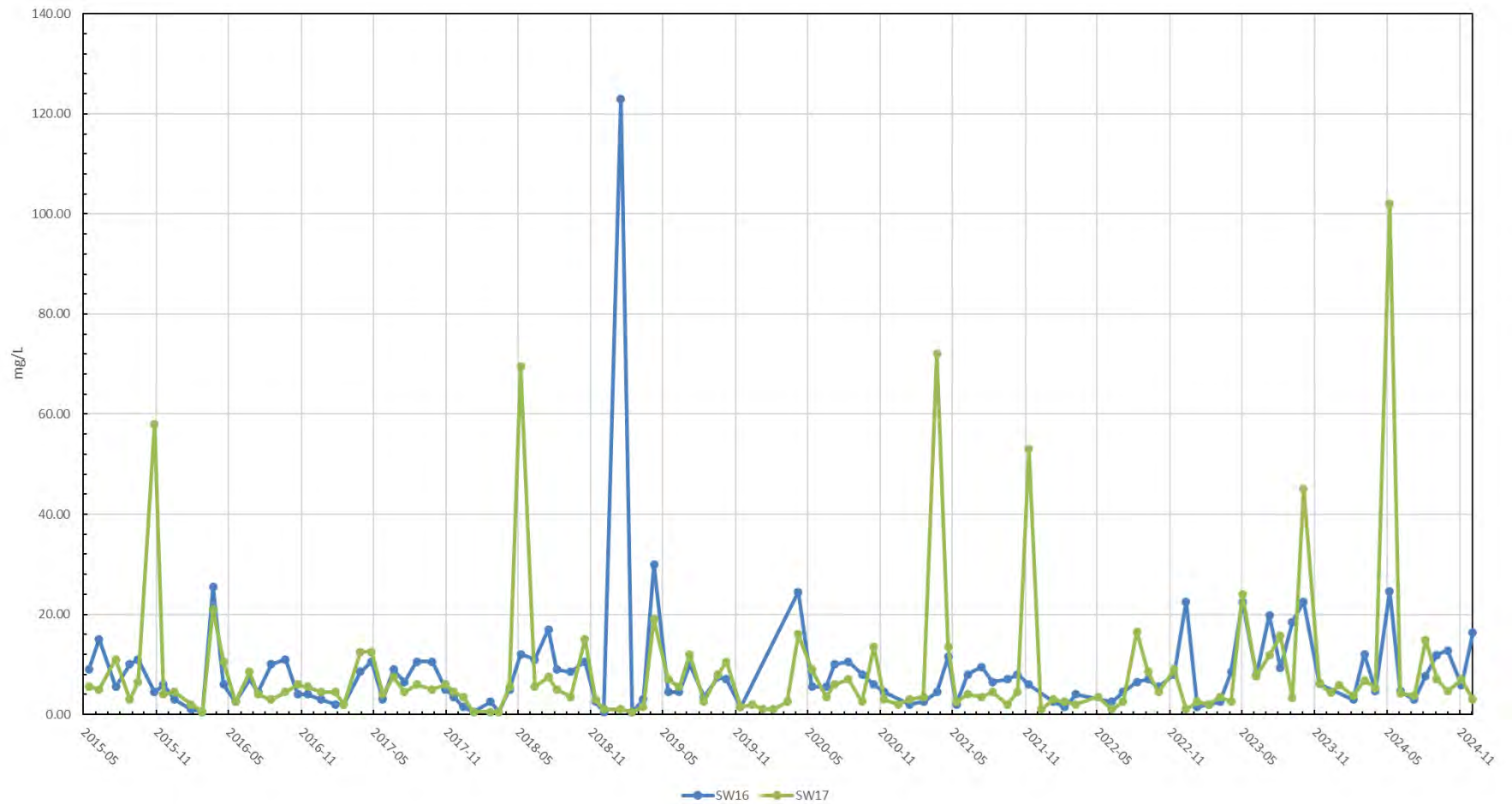


Figure 69: Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2024

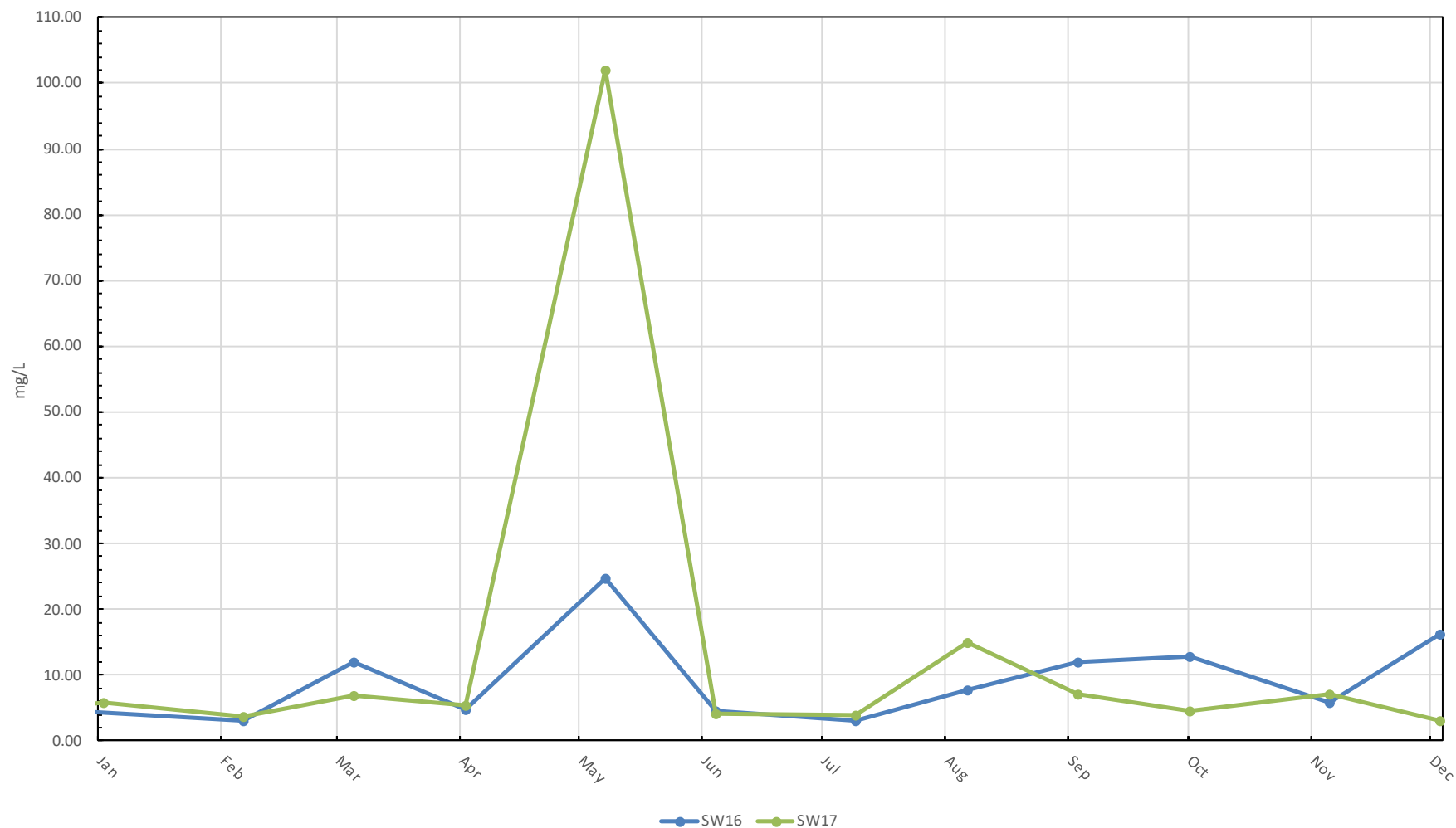


Figure 70: Rainy River Mine, Total Arsenic in Rainy River 2015-2024

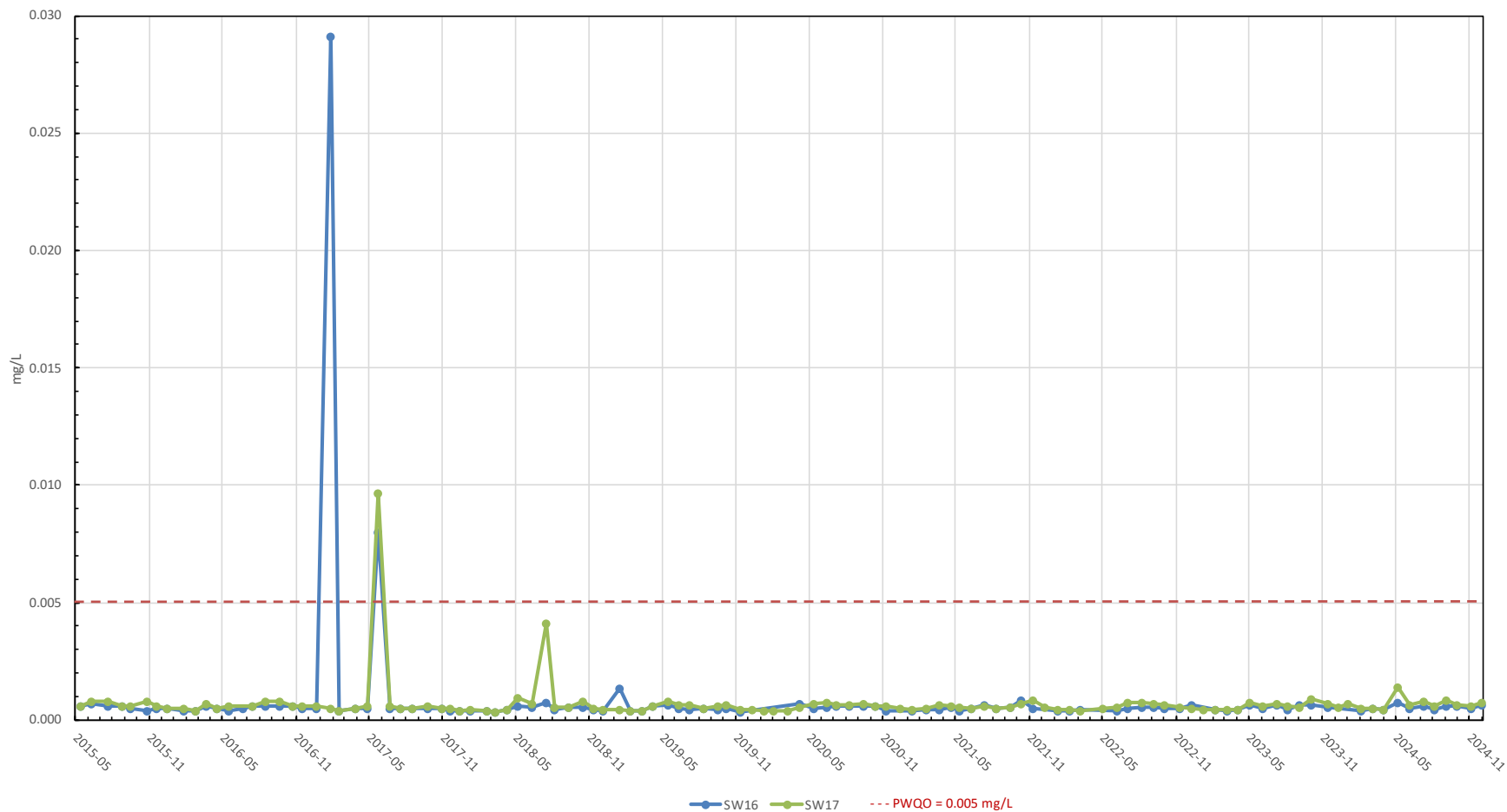


Figure 71: Rainy River Mine, Total Arsenic in Rainy River 2024

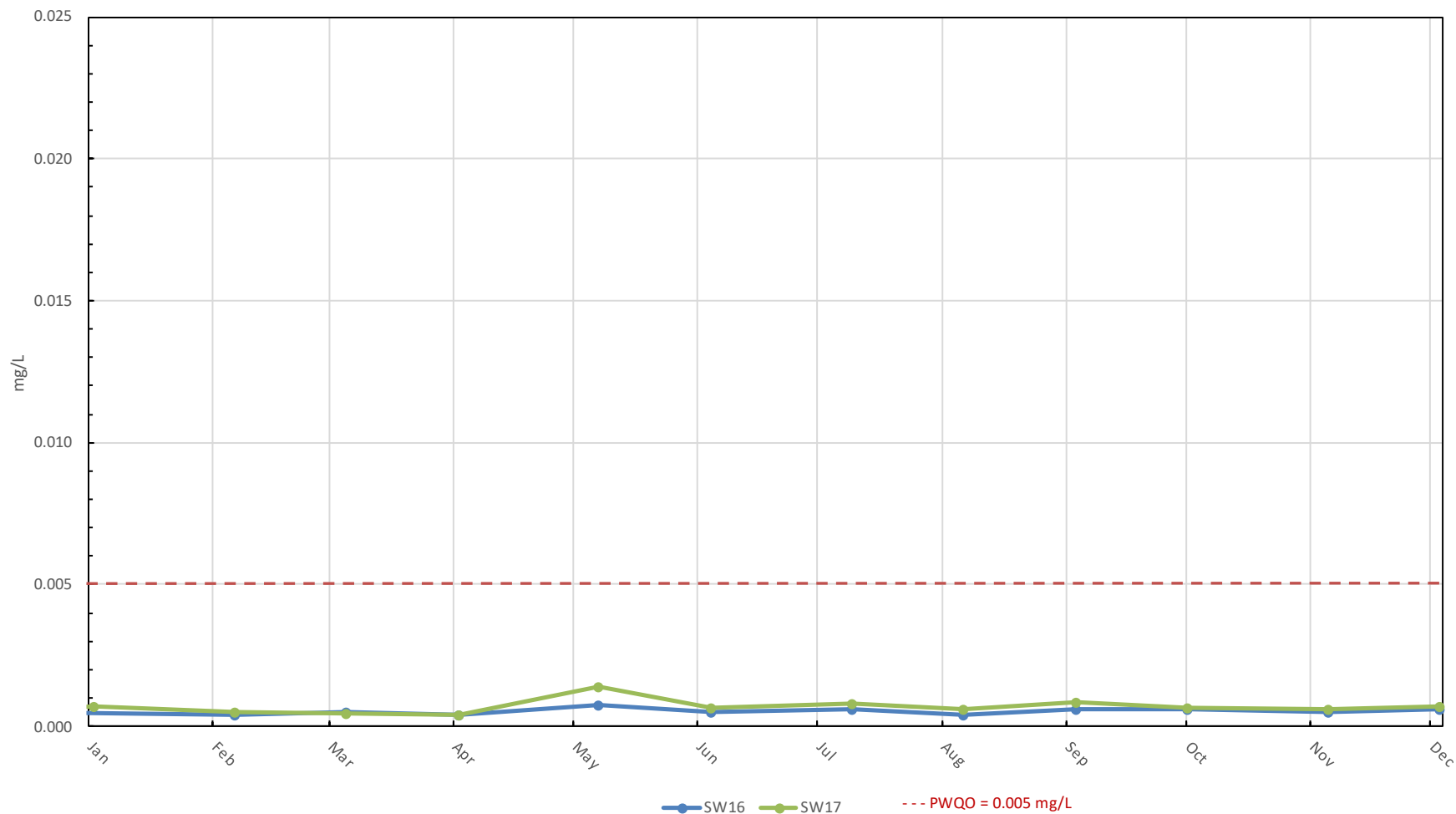


Figure 72: Rainy River Mine, Total Copper in Rainy River 2015-2024

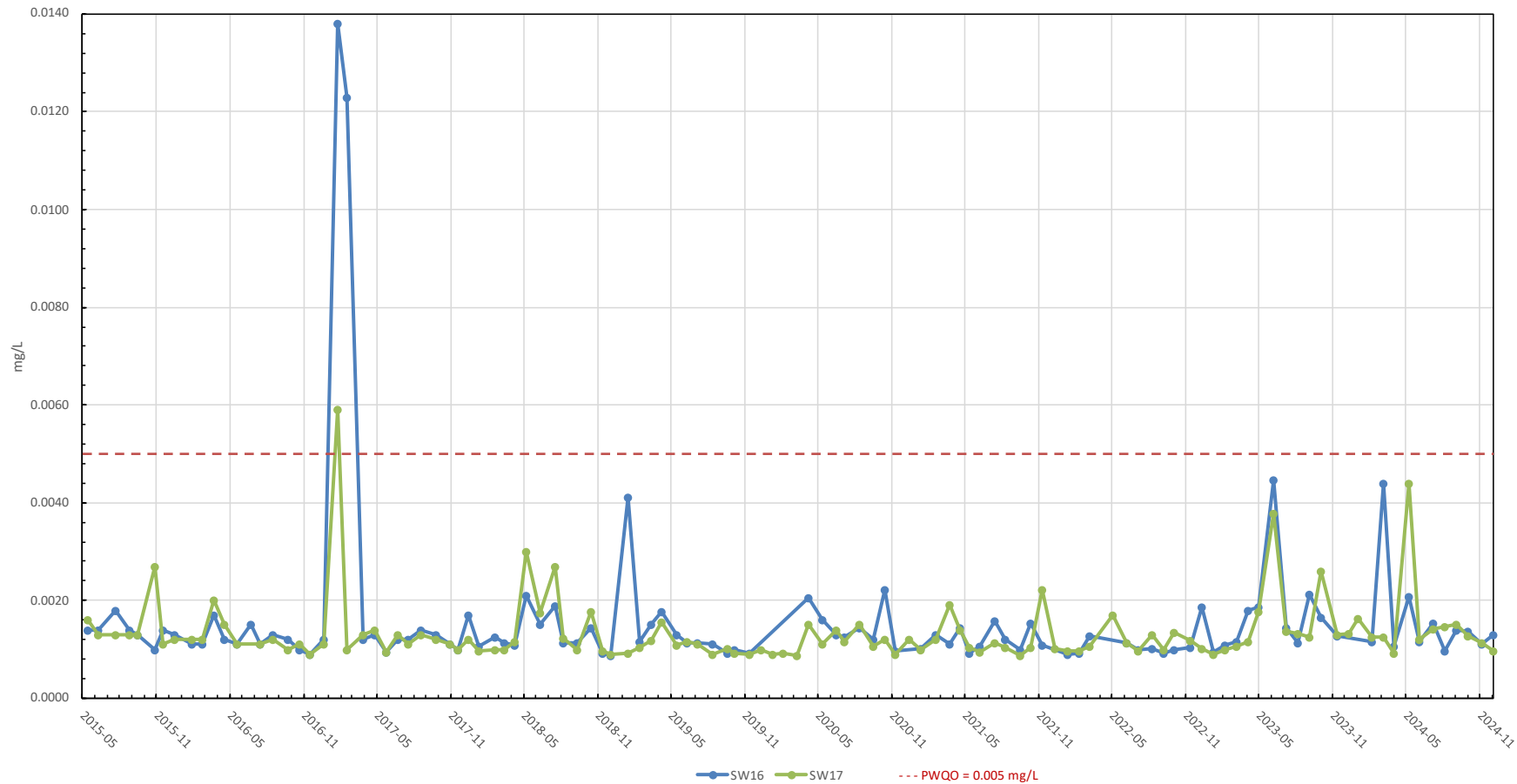


Figure 73: Rainy River Mine, Total Copper in Rainy River 2024

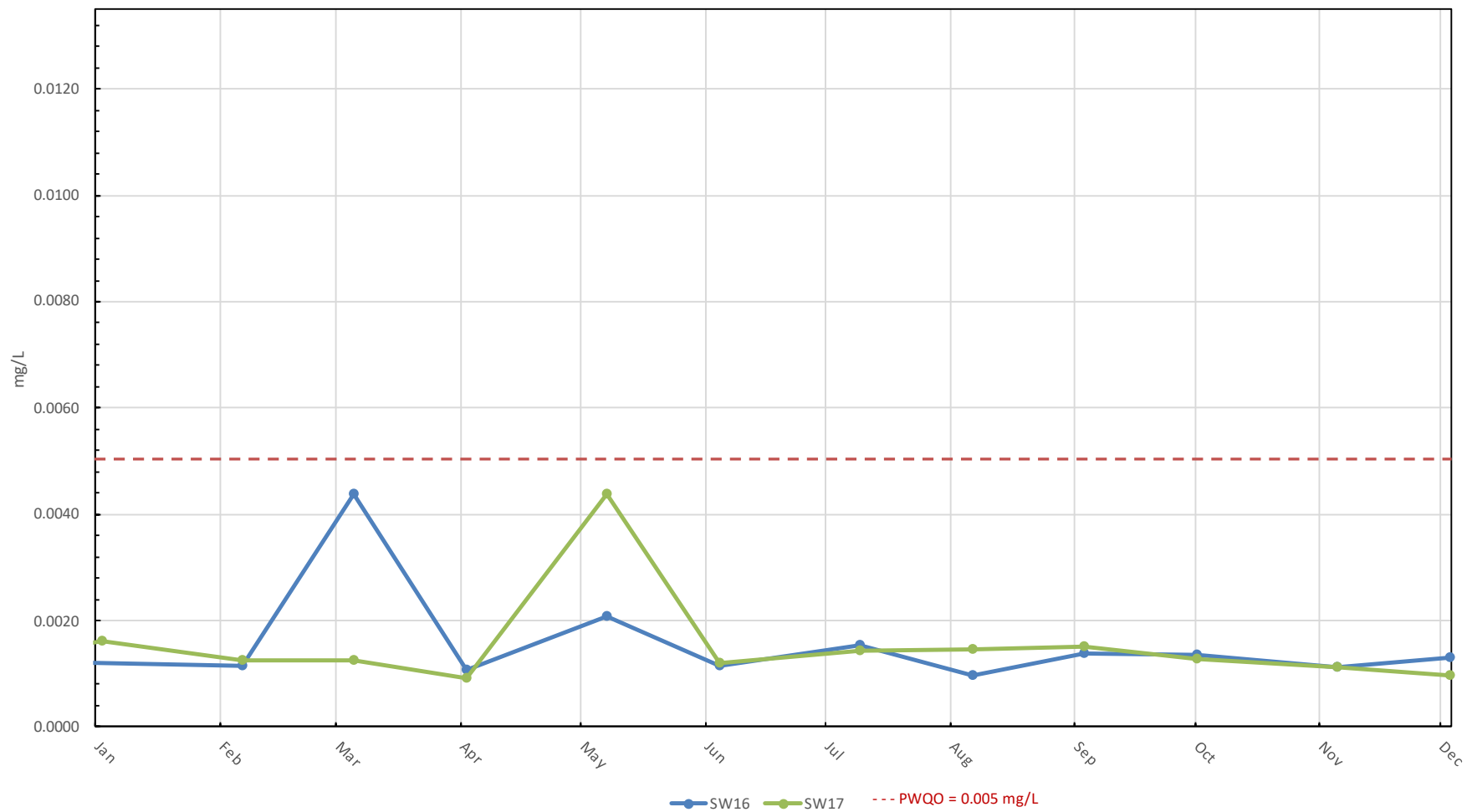




Figure 74: Rainy River Mine, Total Lead in Rainy River 2015-2024

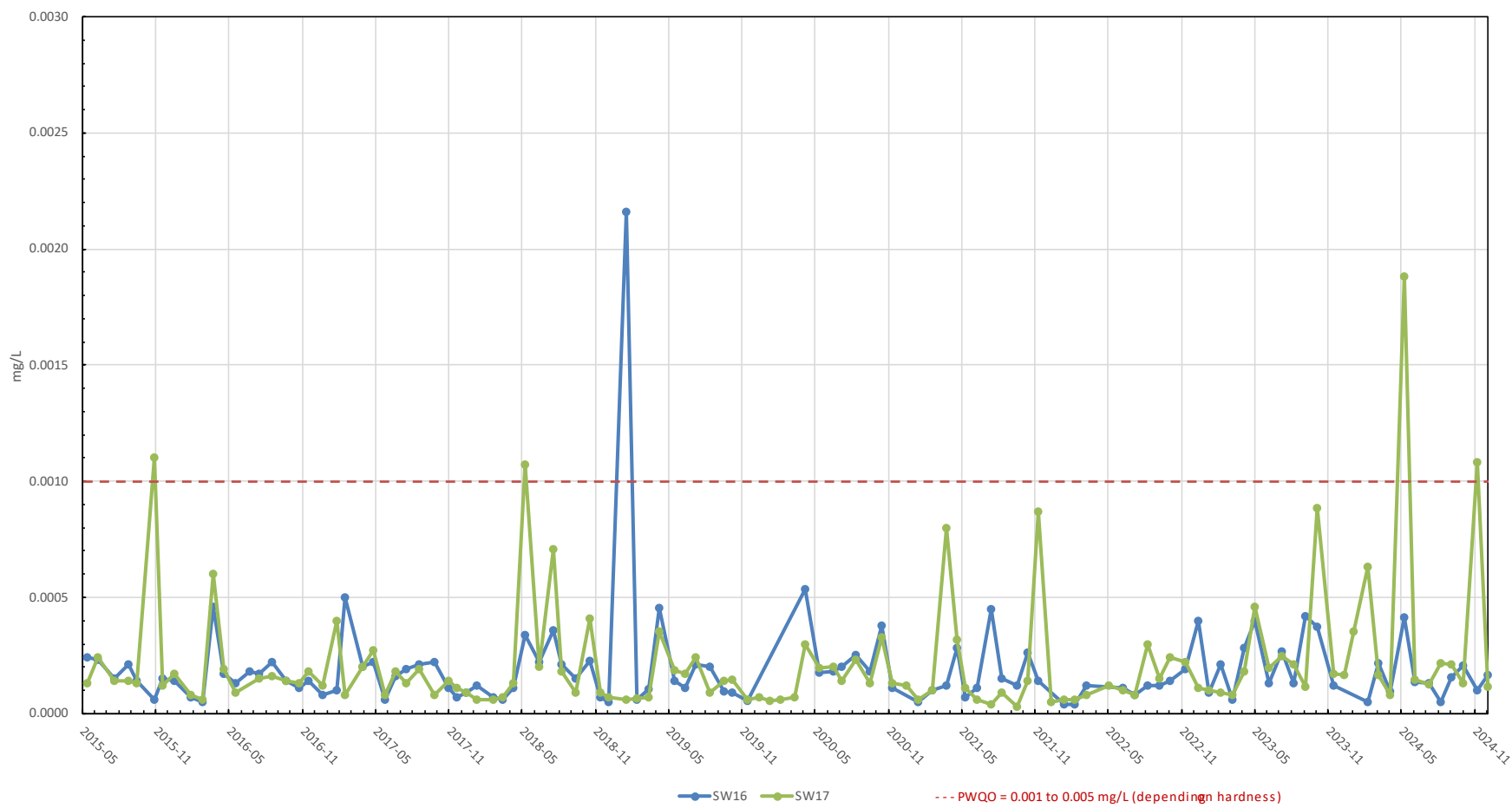


Figure 75: Rainy River Mine, Total Lead in Rainy River 2024

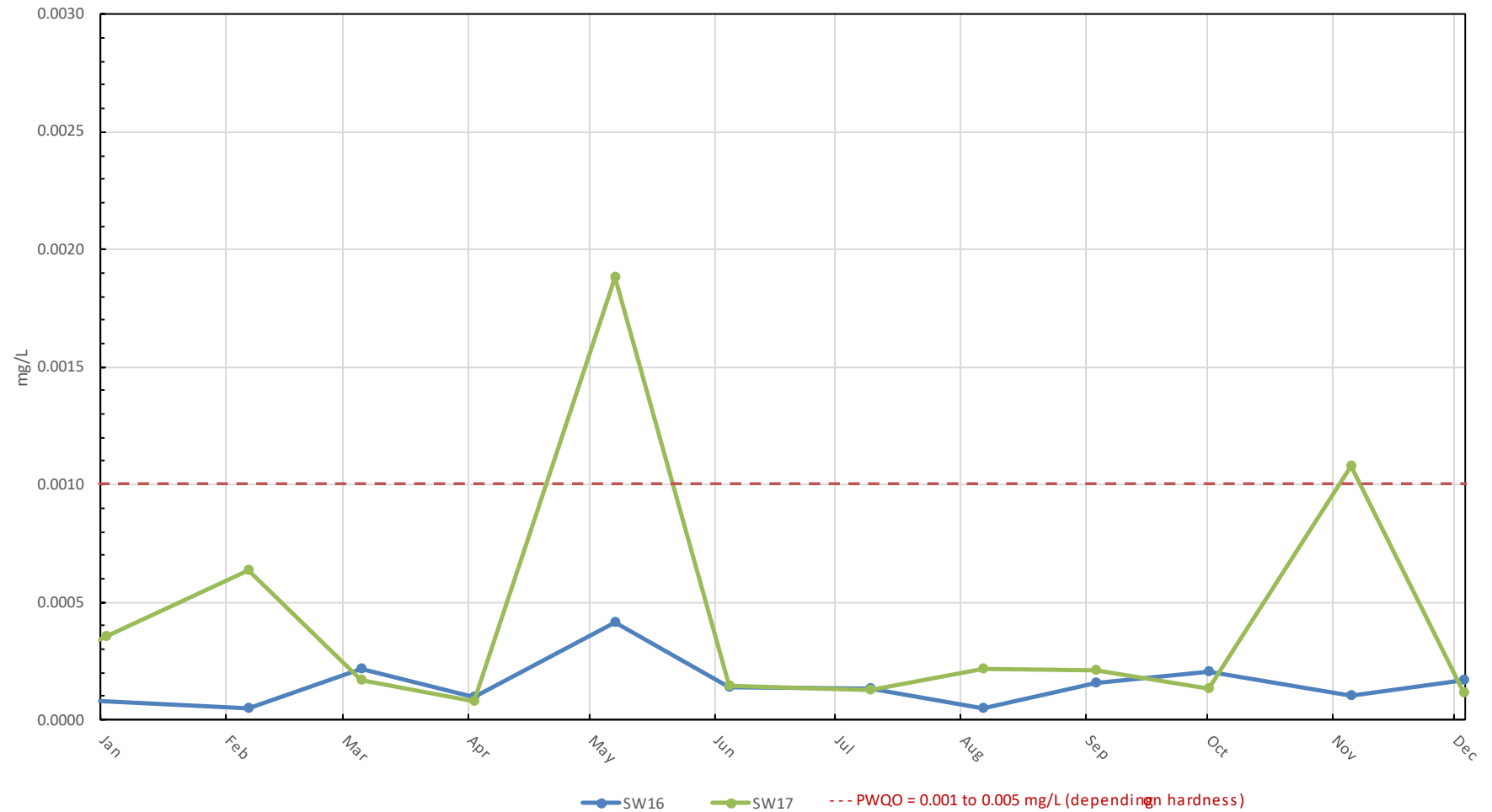


Figure 76: Rainy River Mine, Total Nickel in Rainy River 2015-2024

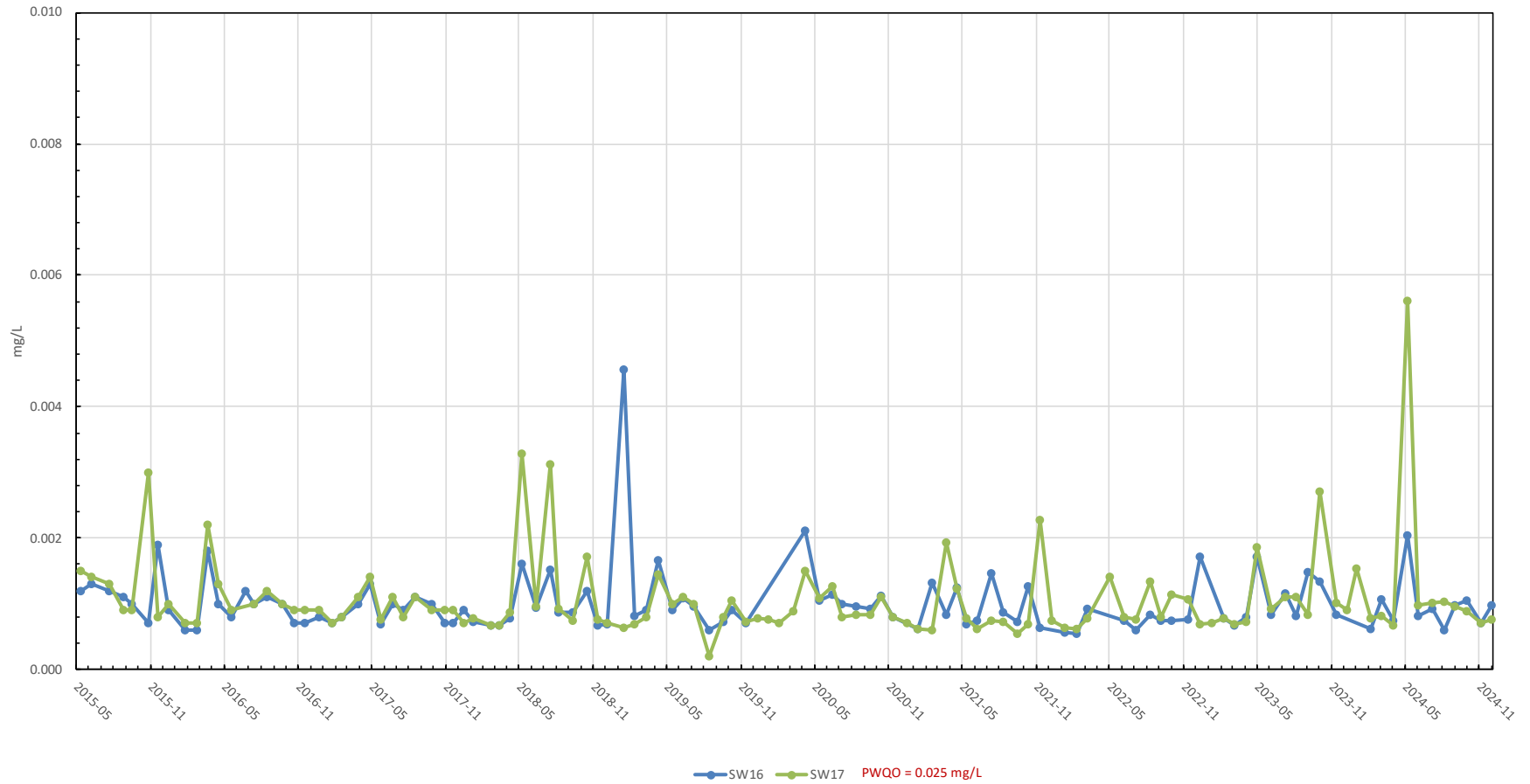


Figure 77: Rainy River Mine, Total Nickel in Rainy River 2024

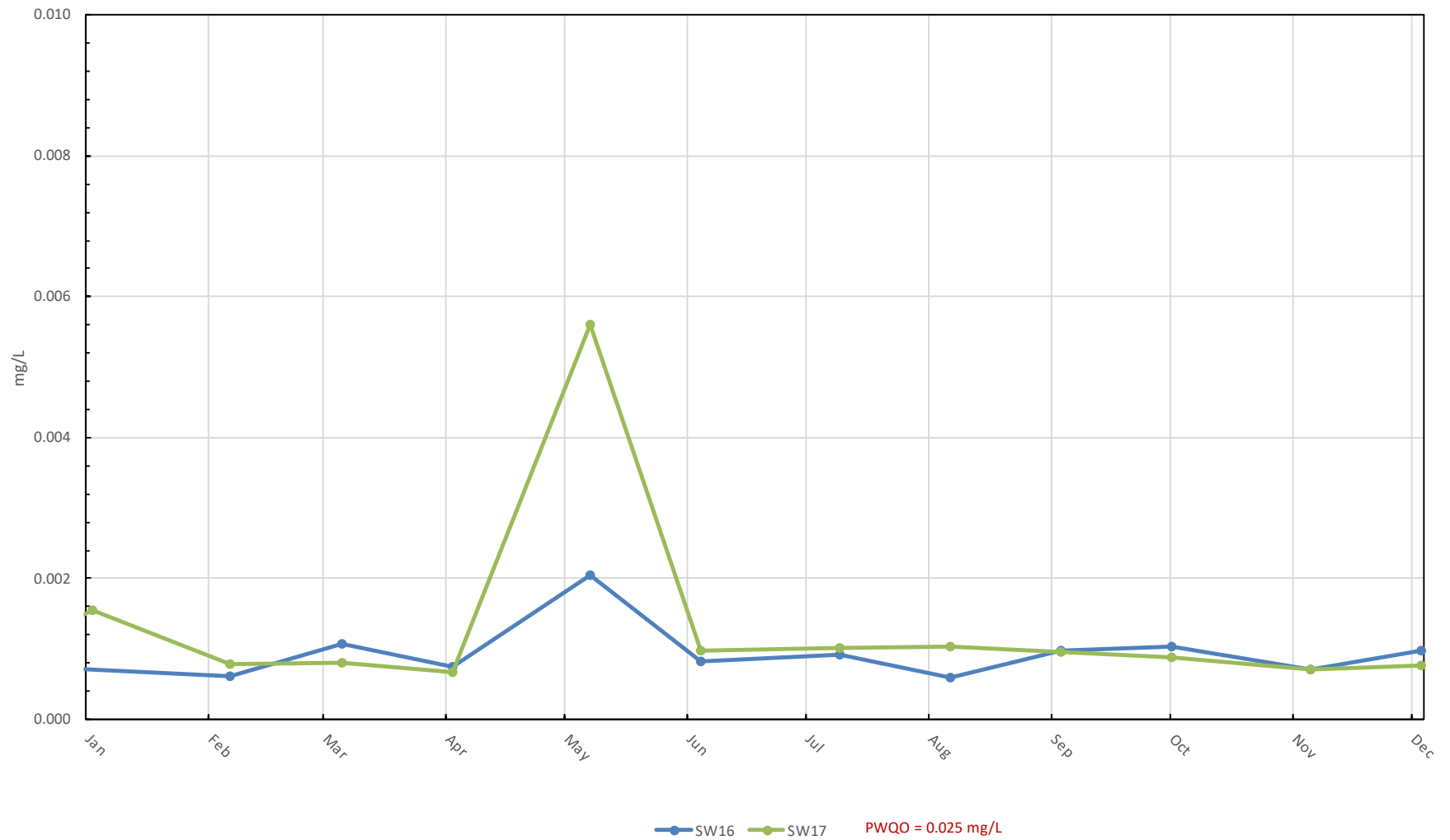


Figure 78: Rainy River Mine, Total Phosphorus in Rainy River 2017-2024

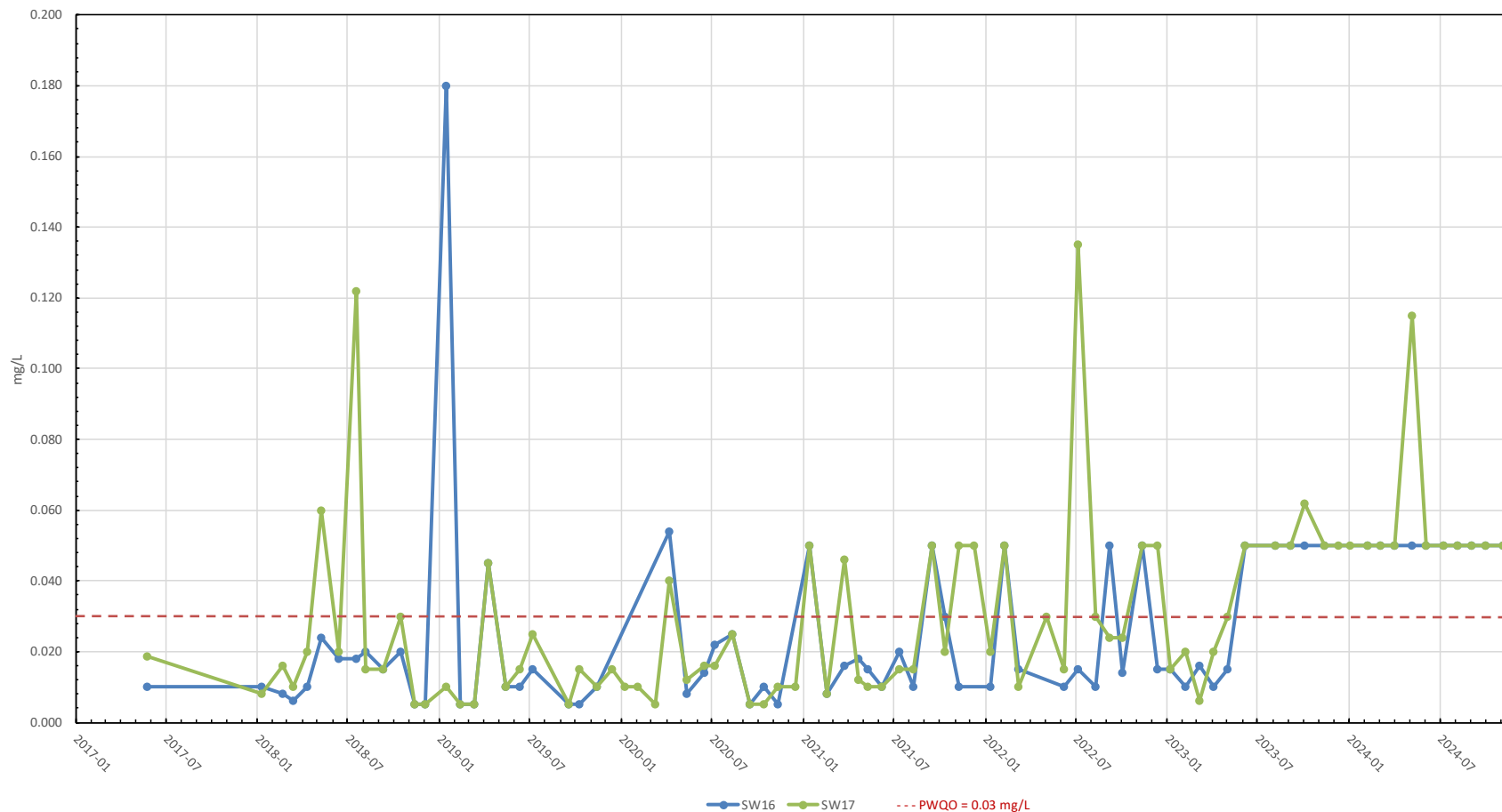


Figure 79: Rainy River Mine, Total Phosphorus in Rainy River 2024

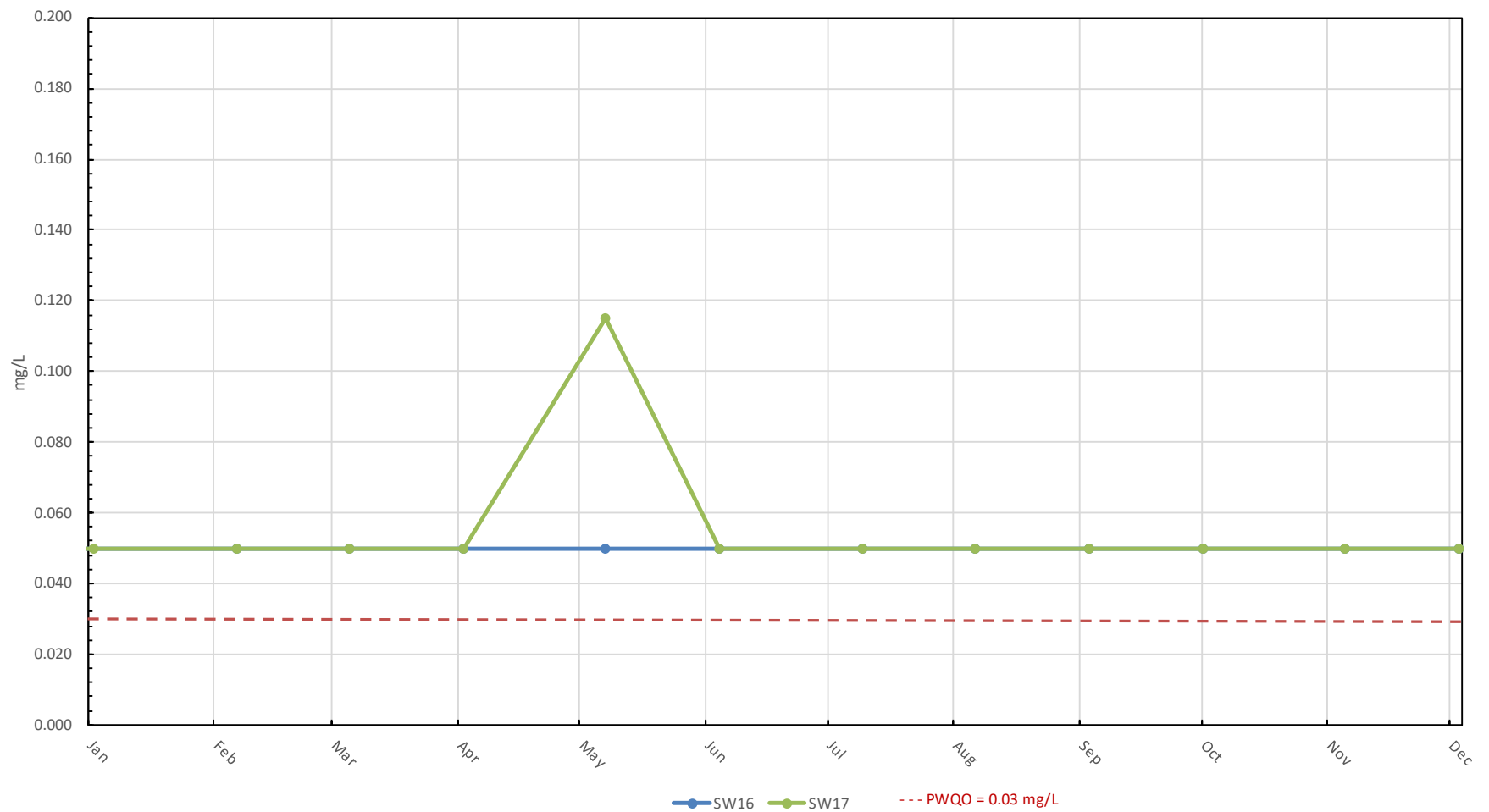


Figure 80: Rainy River Mine, Total Zinc in Rainy River 2015-2024

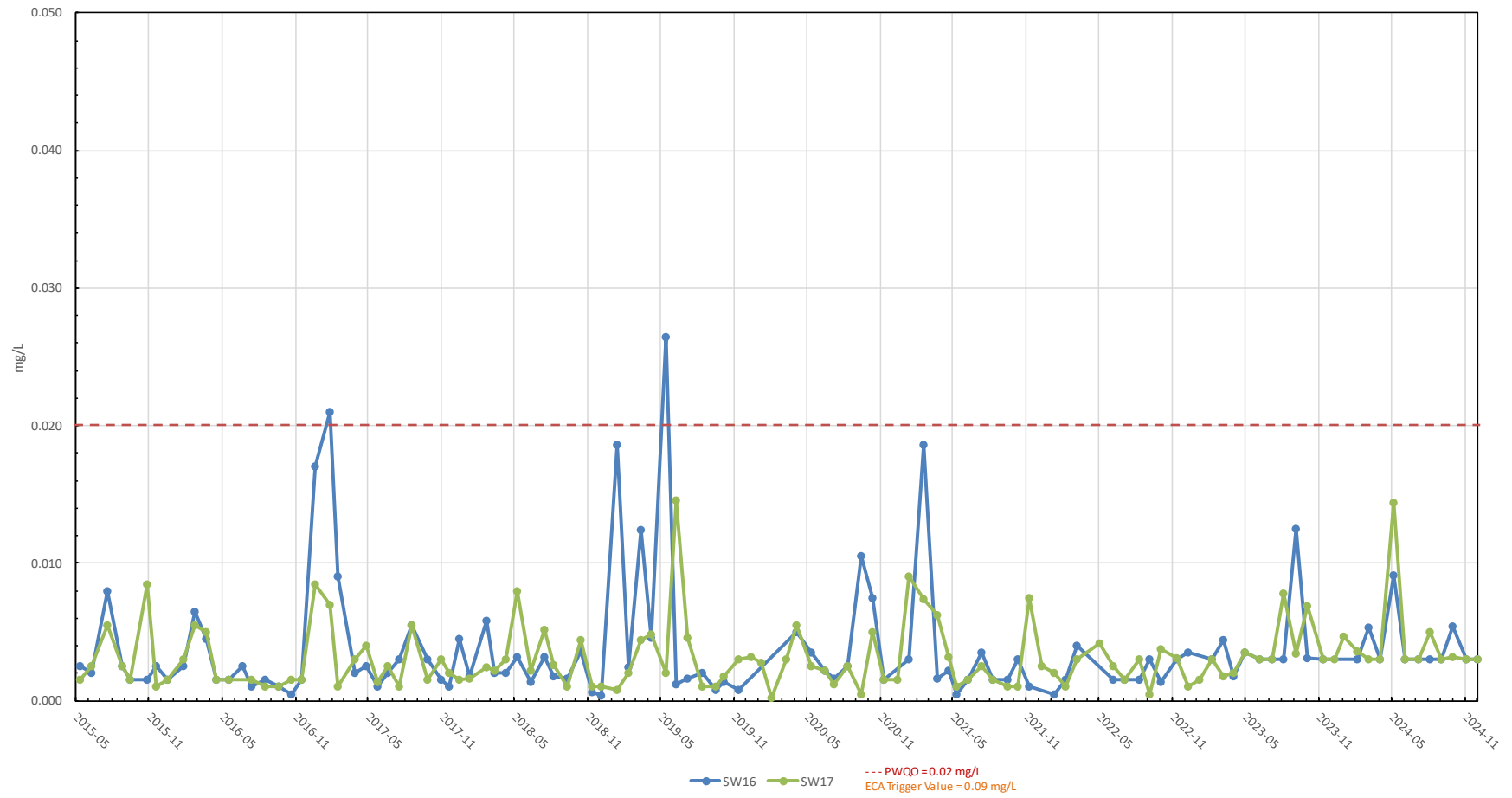


Figure 81: Rainy River Mine, Total Zinc in Rainy River 2024

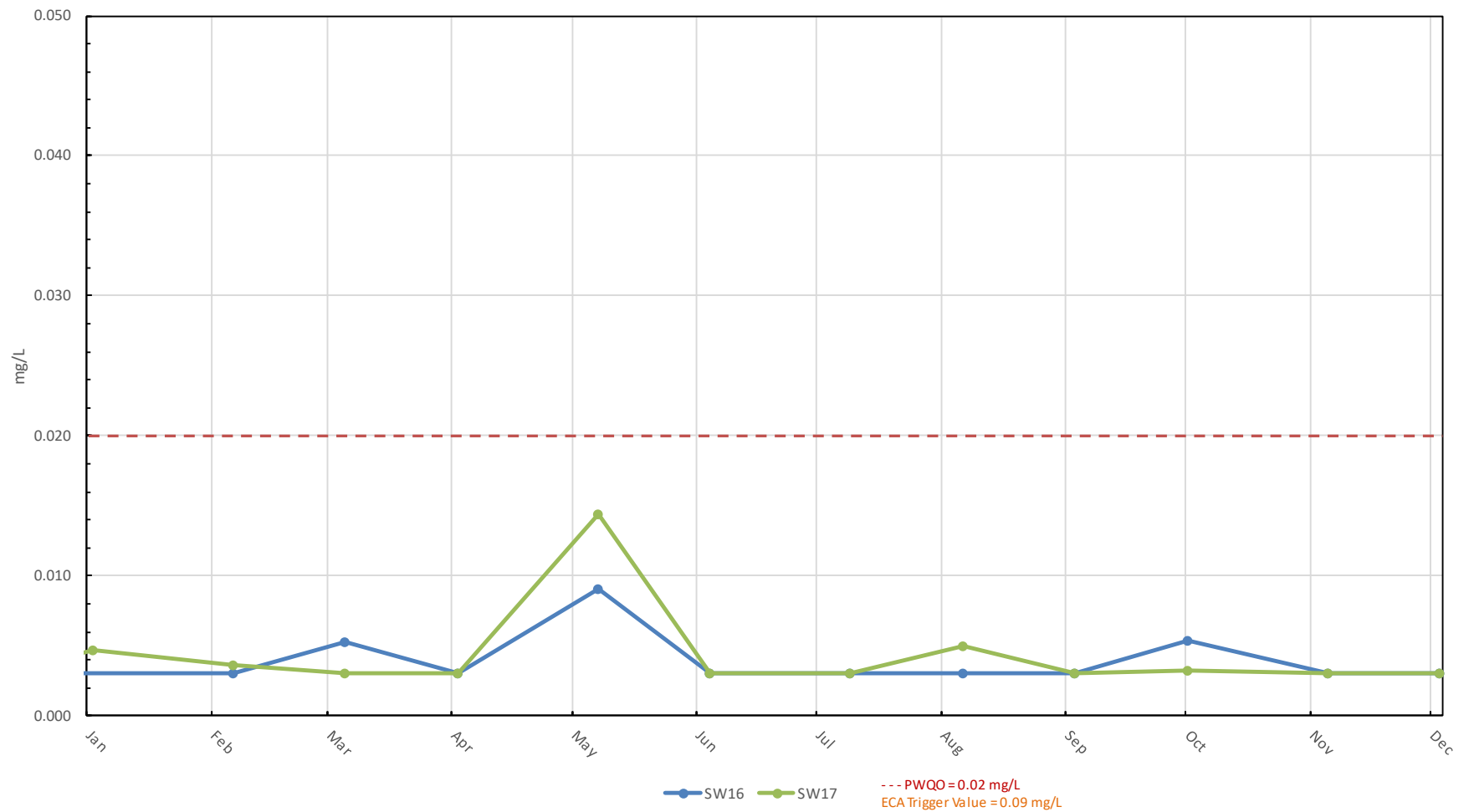




Figure 82: Rainy River Mine, Total Mercury in Rainy River 2015-2024

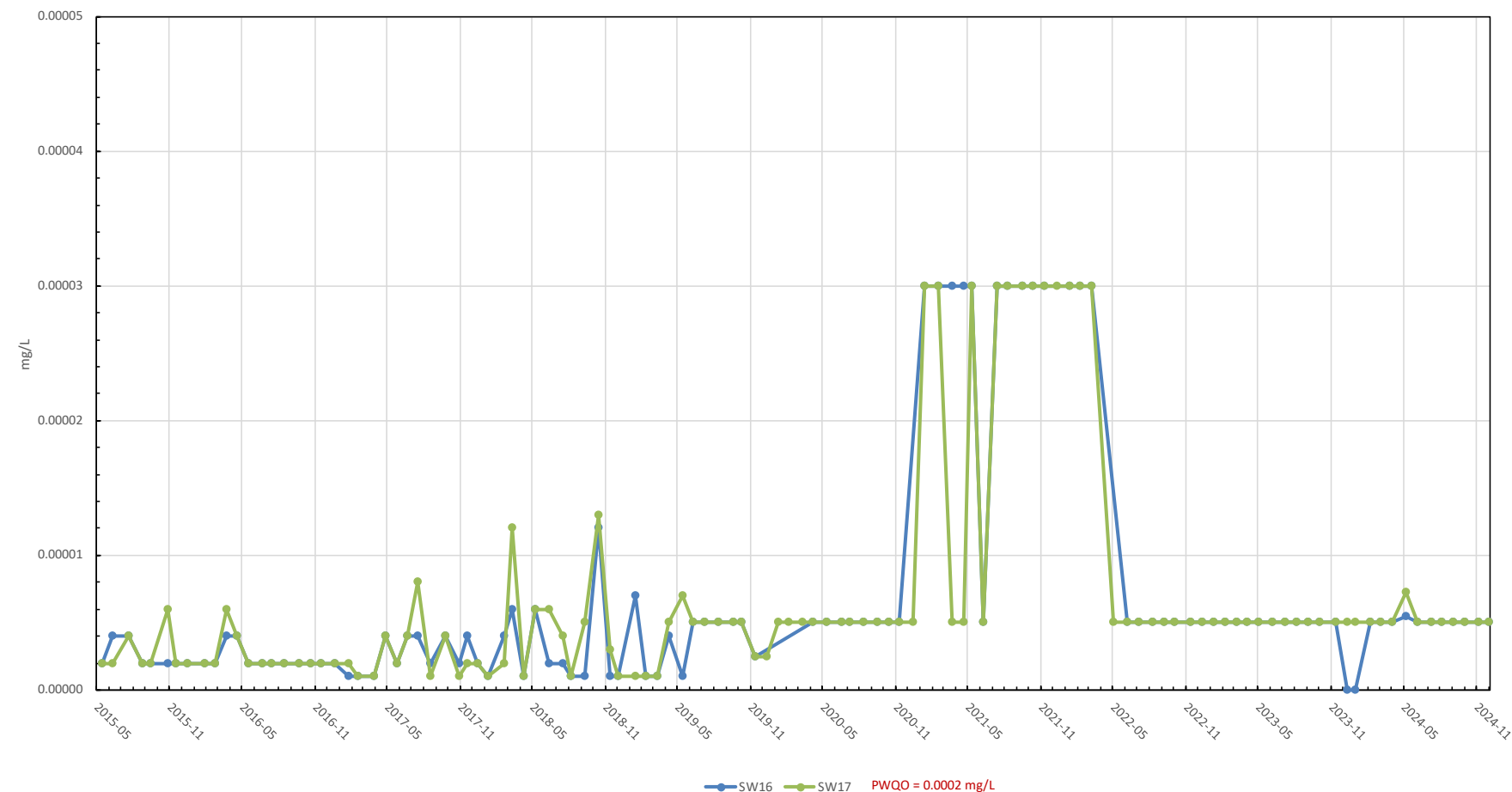


Figure 83: Rainy River Mine, Total Mercury in Rainy River 2024

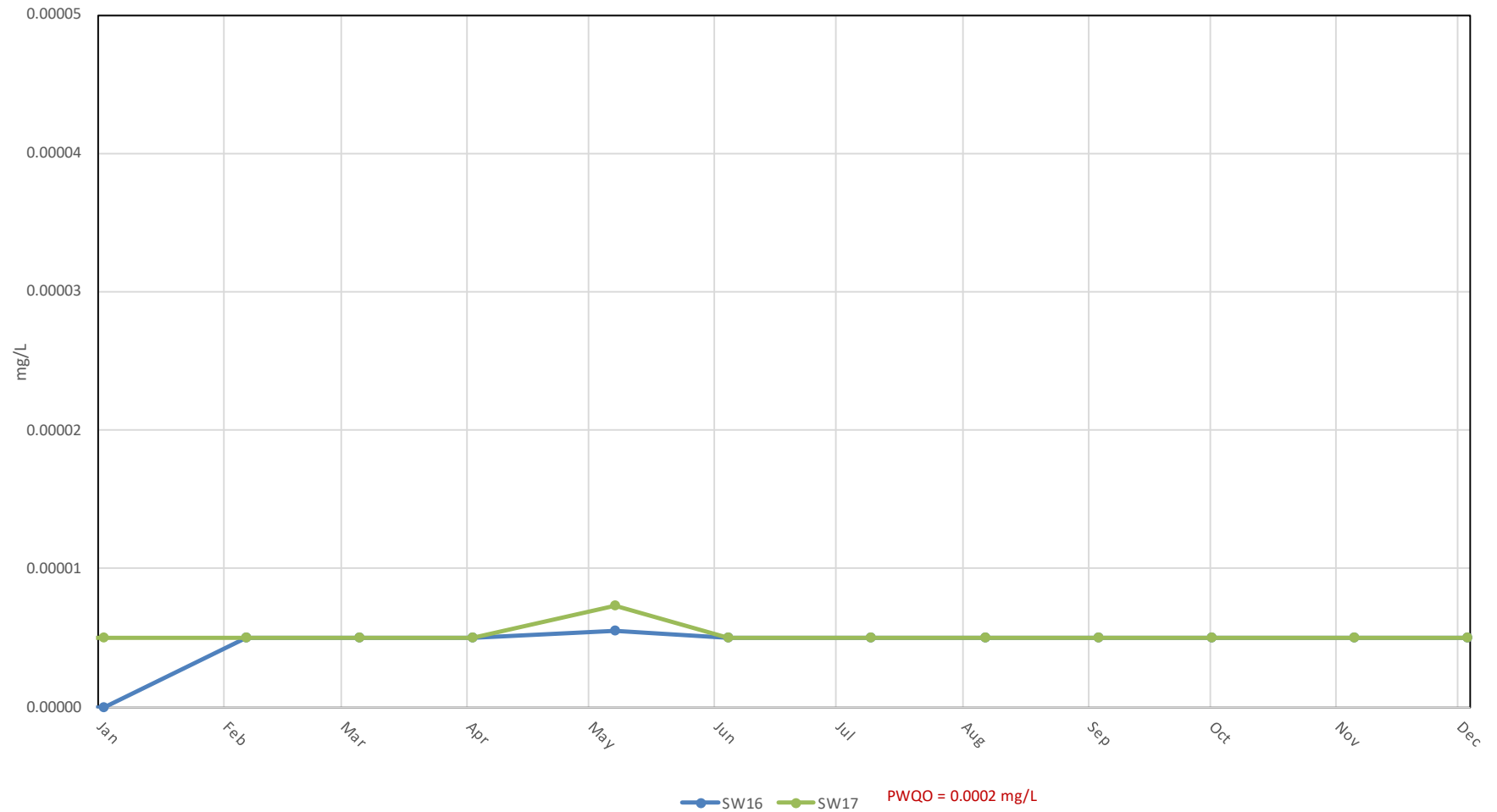


Figure 84: Rainy River Mine, Un-ionized Ammonia in Rainy River 2015-2024

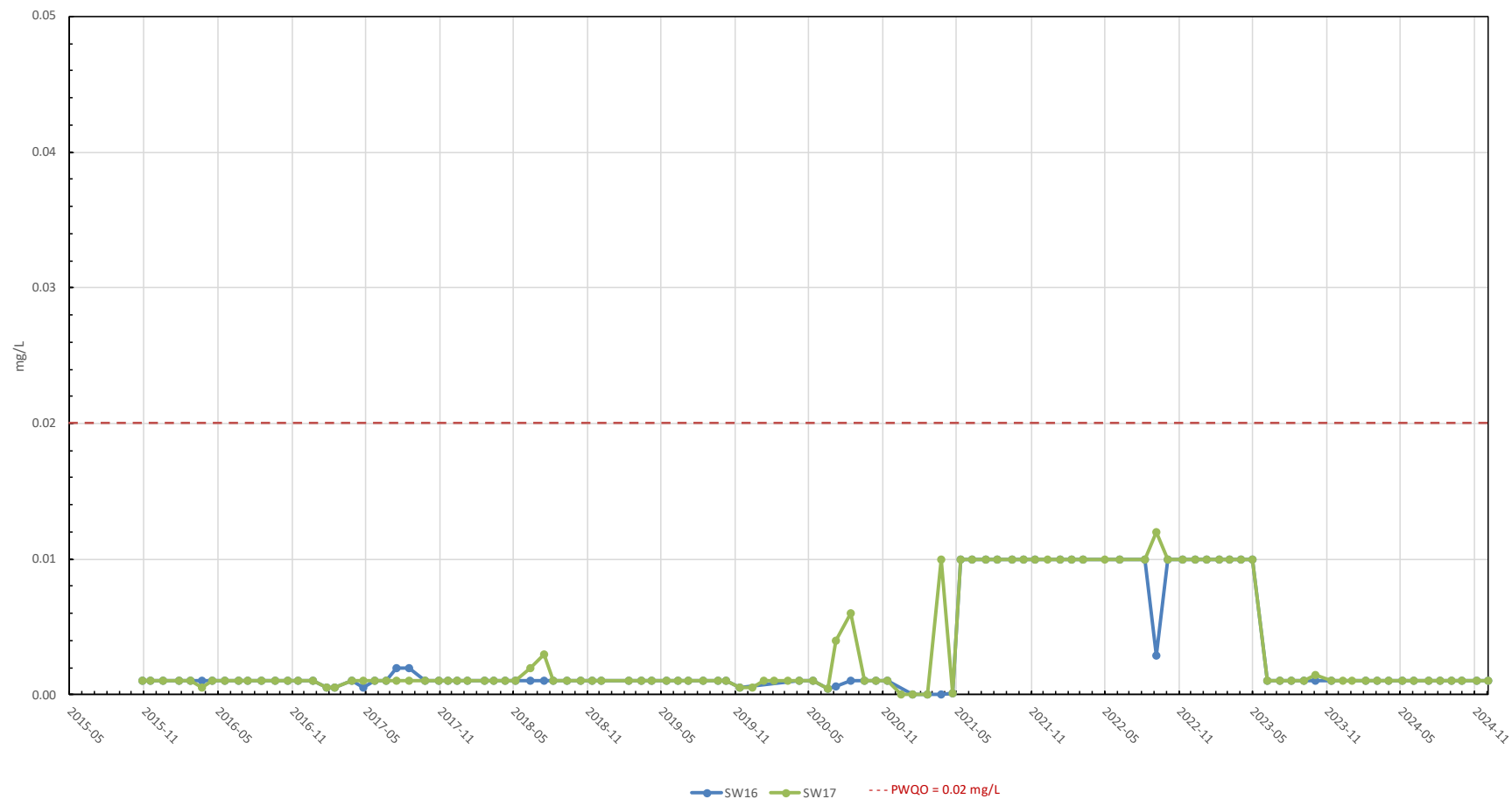


Figure 85: Rainy River Mine, Un-ionized Ammonia in Rainy River 2024

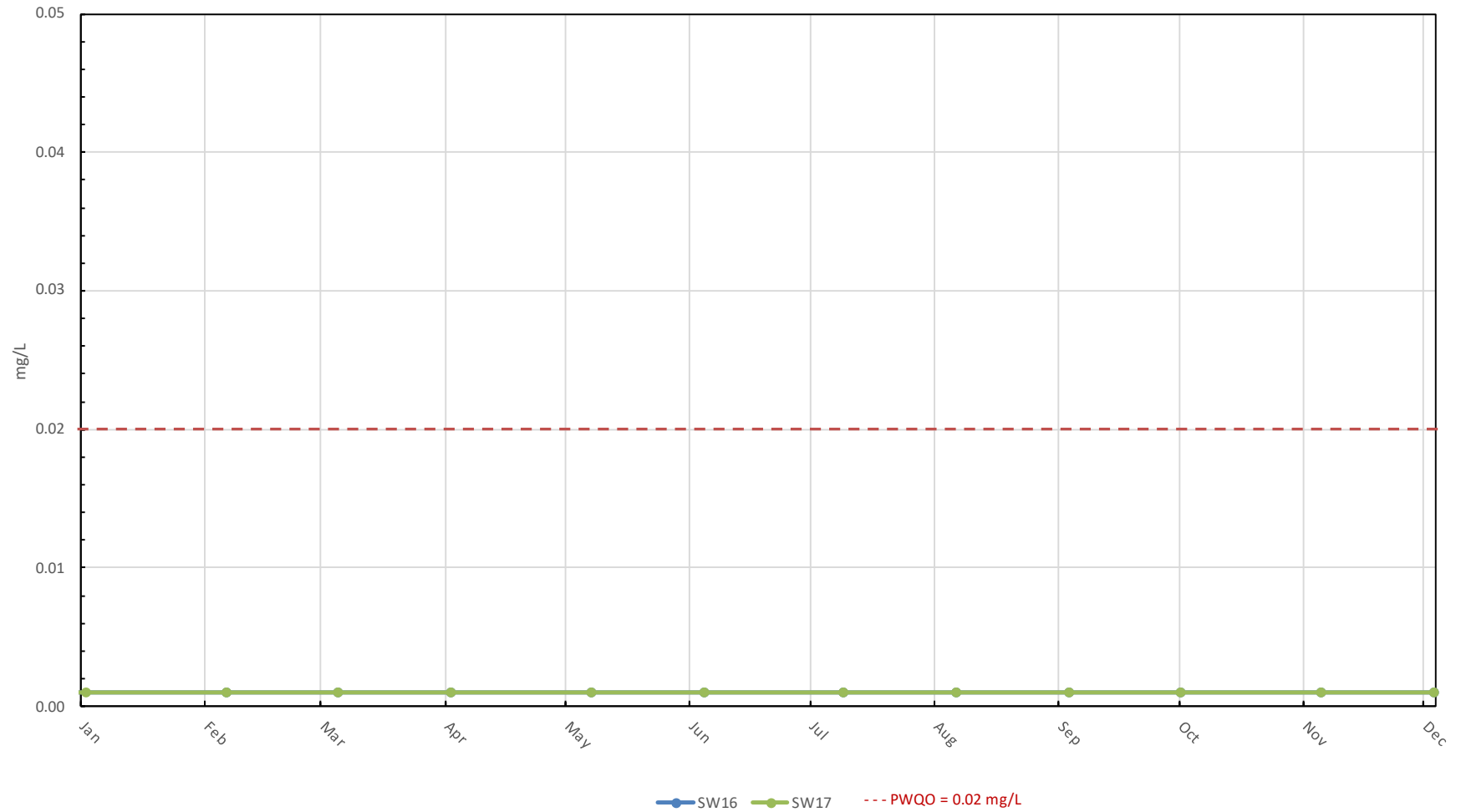


Figure 86: Rainy River Mine, Free Cyanide in Rainy River 2018-2024

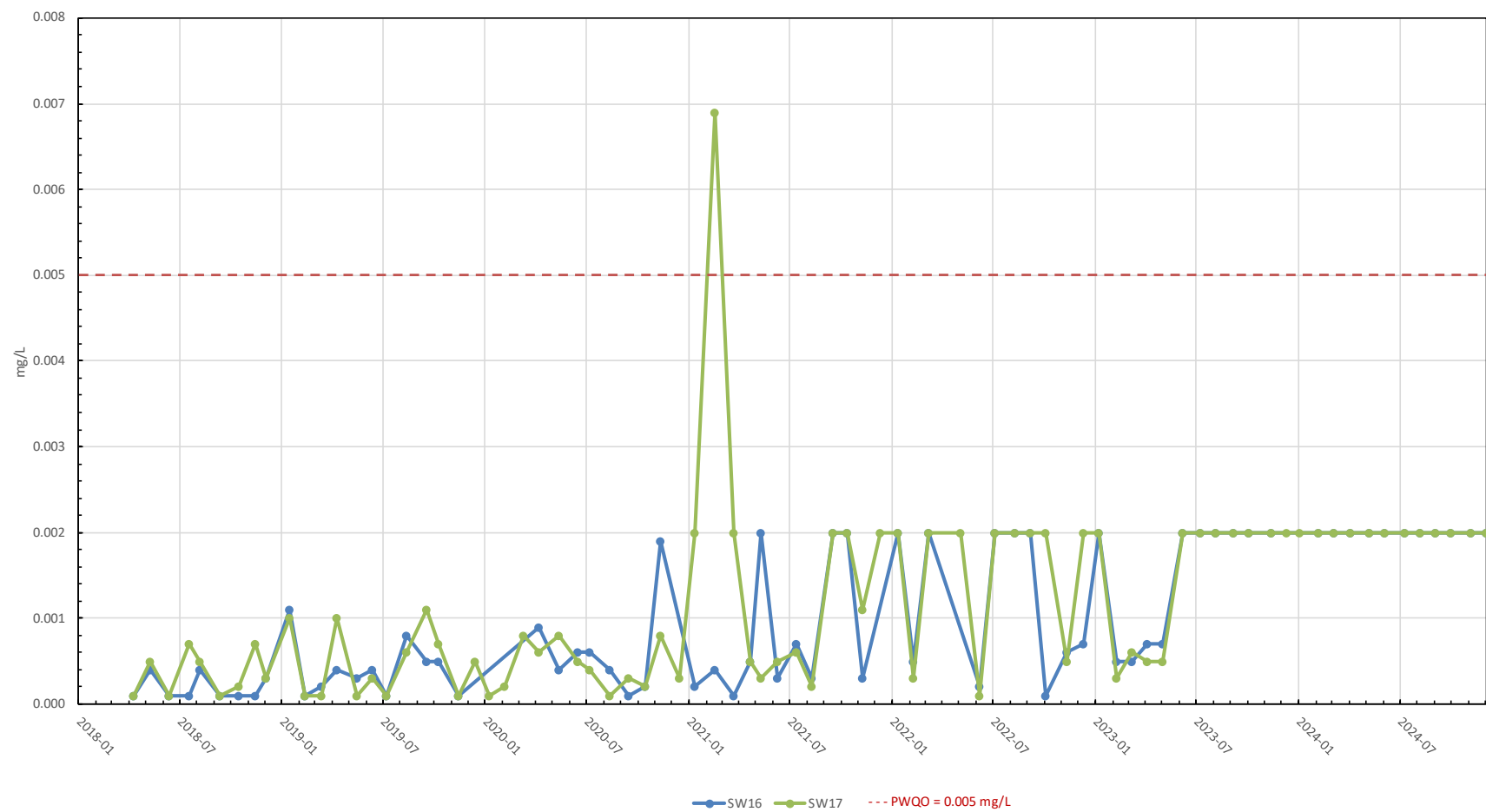


Figure 87: Rainy River Mine, Free Cyanide in Rainy River 2024

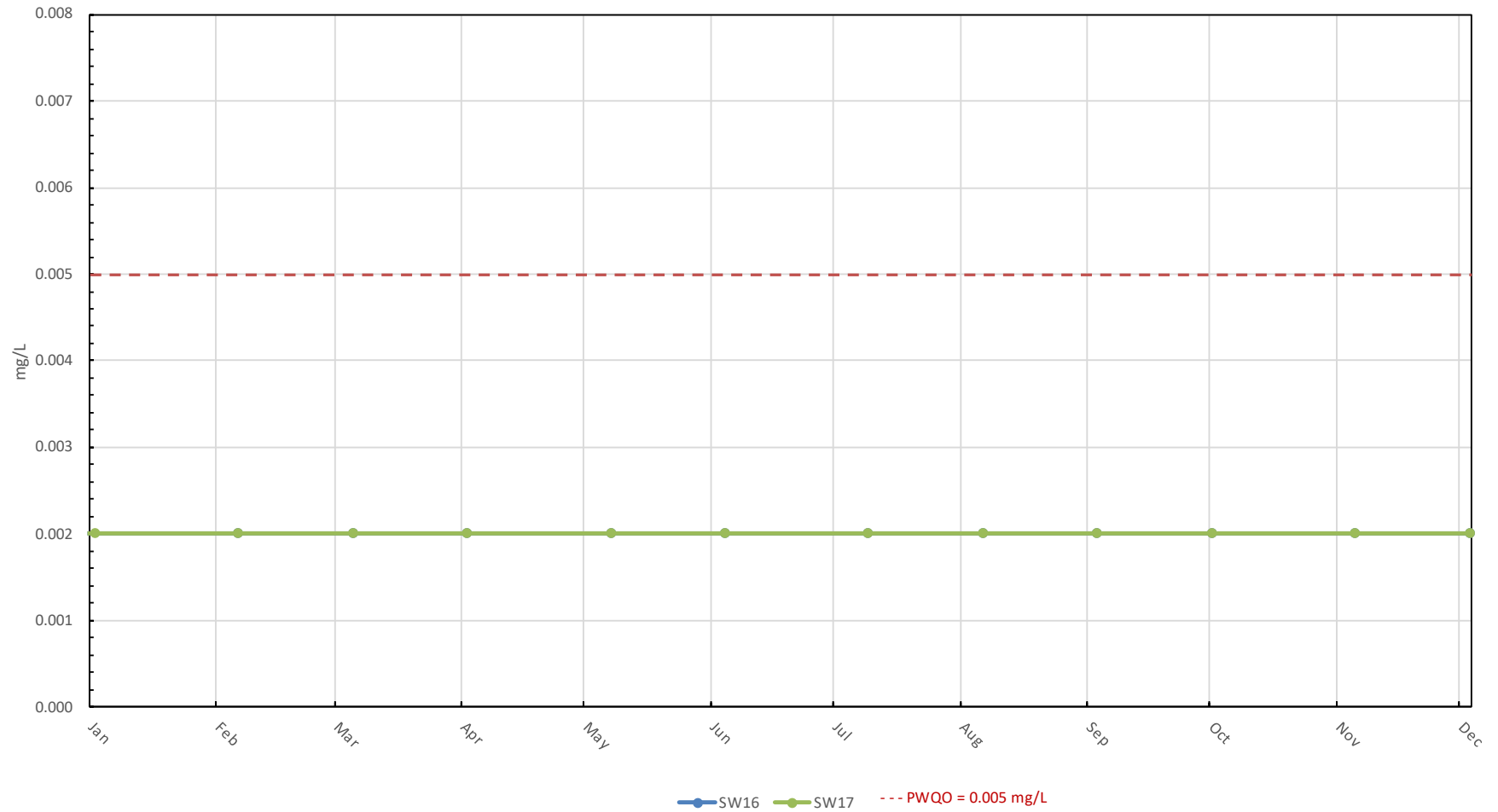


Figure 88: Rainy River Mine, Total Aluminum in Rainy River 2015-2024

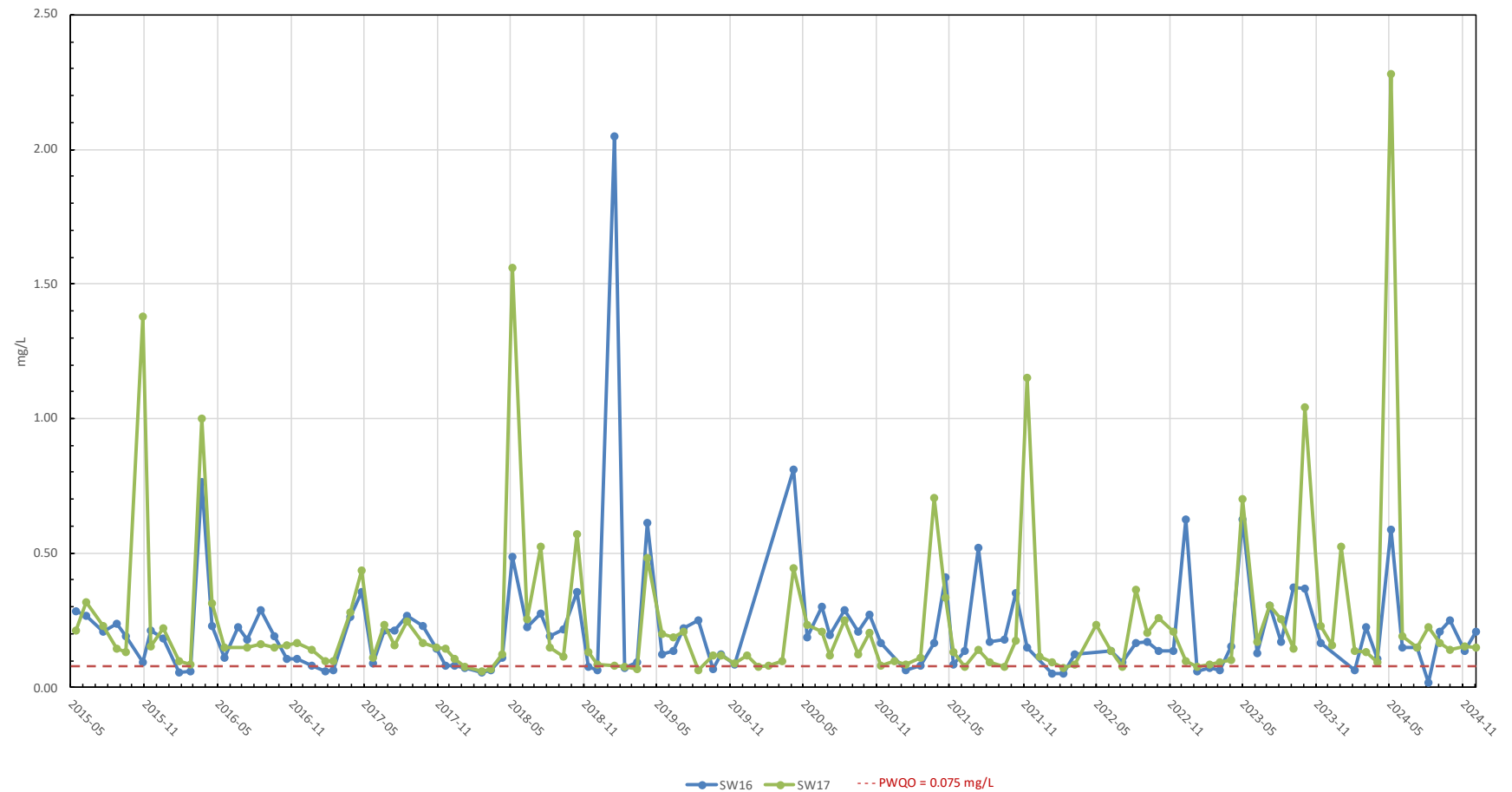


Figure 89: Rainy River Mine, Total Aluminum in Rainy River 2024

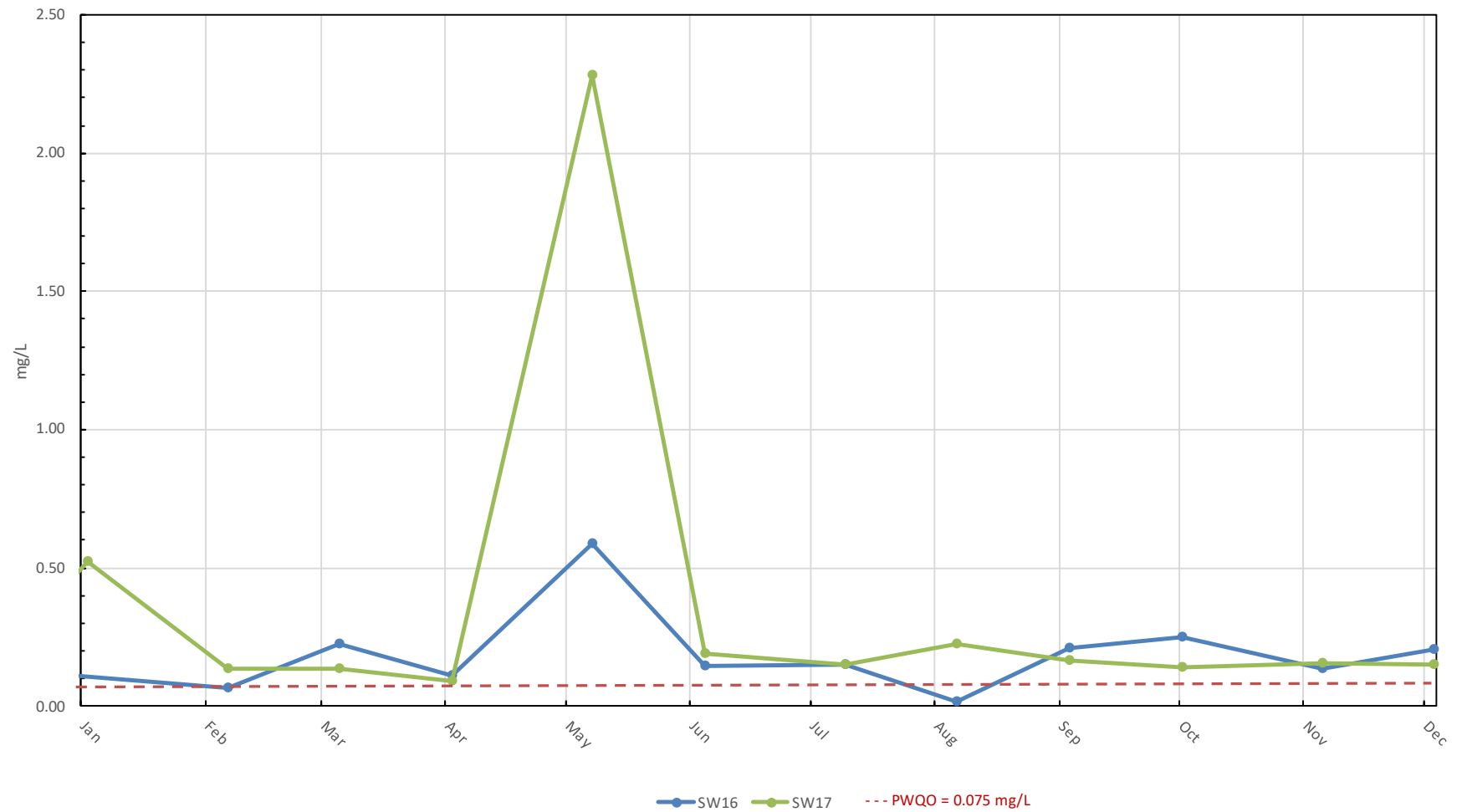




Figure 90: Rainy River Mine, Total Cadmium in Rainy River 2015-2024

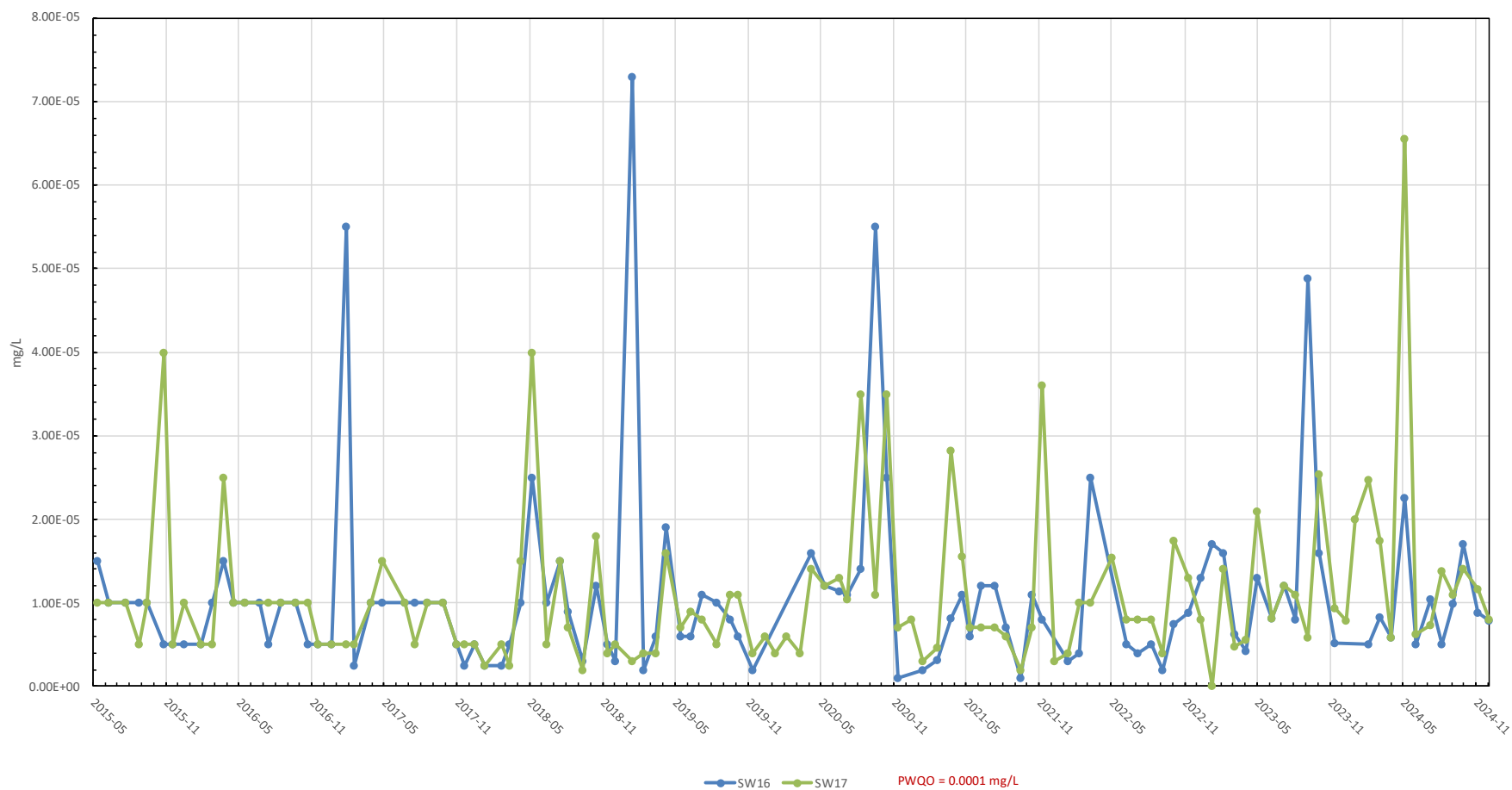


Figure 91: Rainy River Mine, Total Cadmium in Rainy River 2024

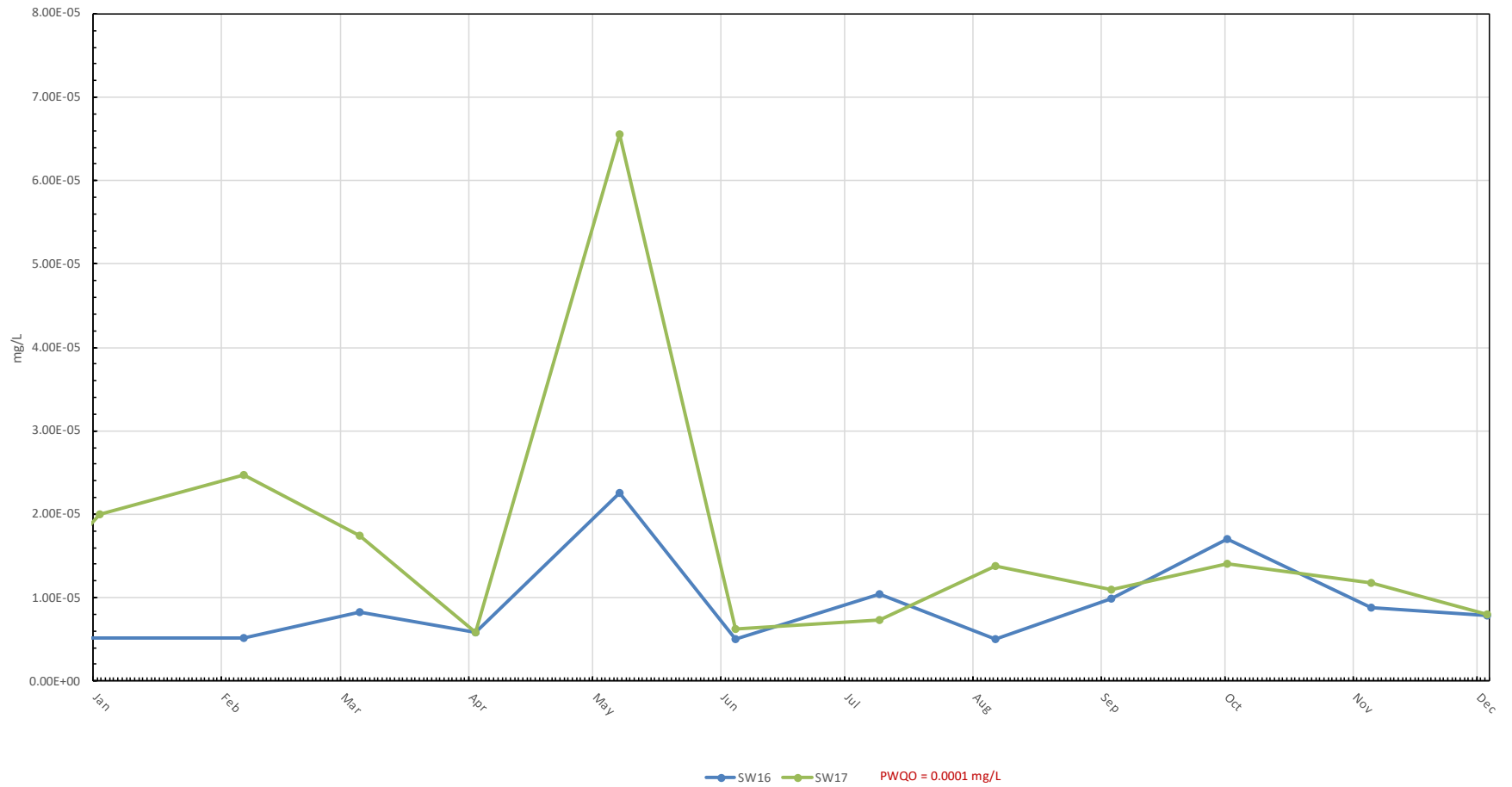


Figure 92: Rainy River Mine, Total Chromium in Rainy River 2015-2024

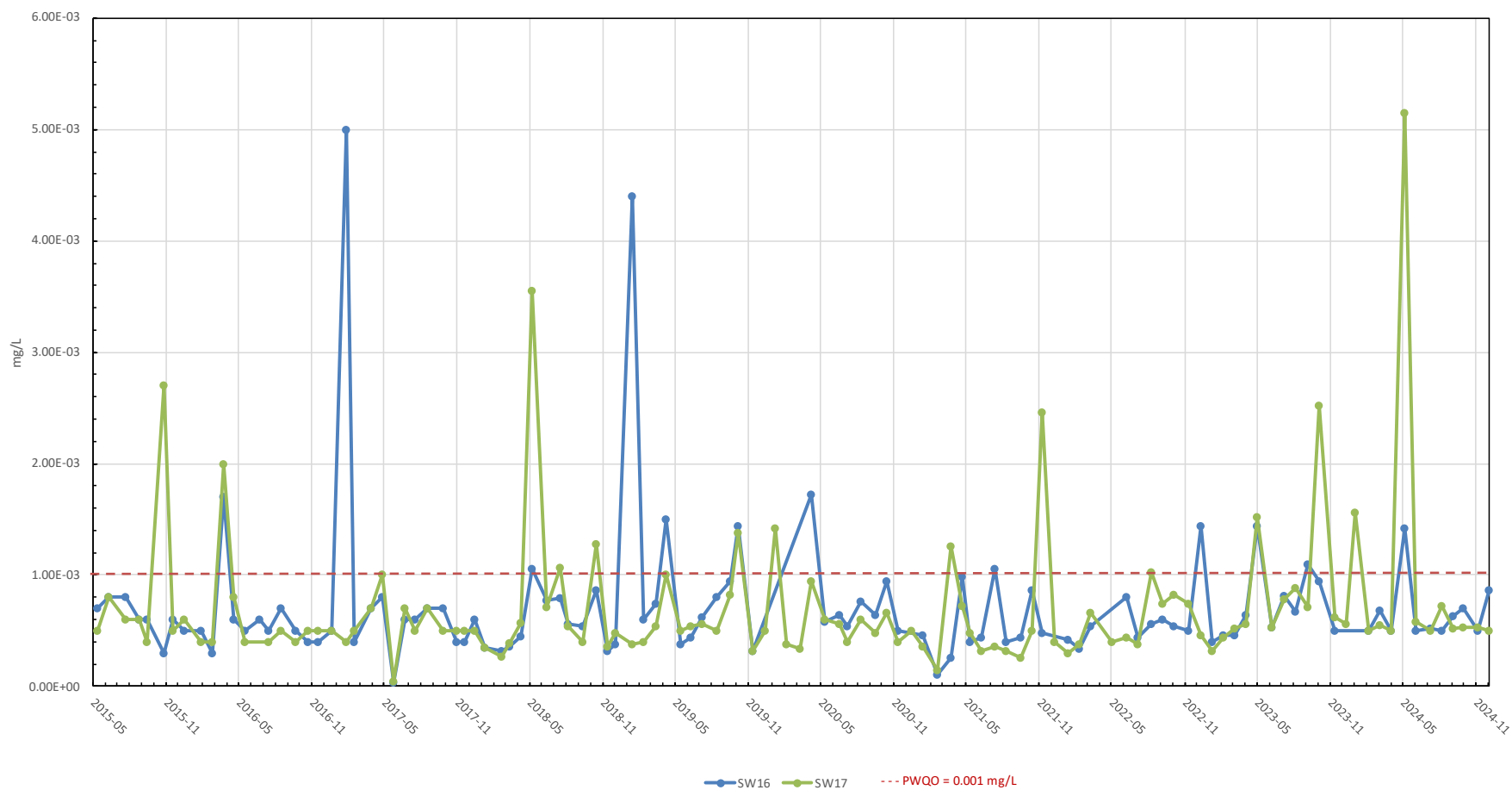


Figure 93: Rainy River Mine, Total Chromium in Rainy River 2024

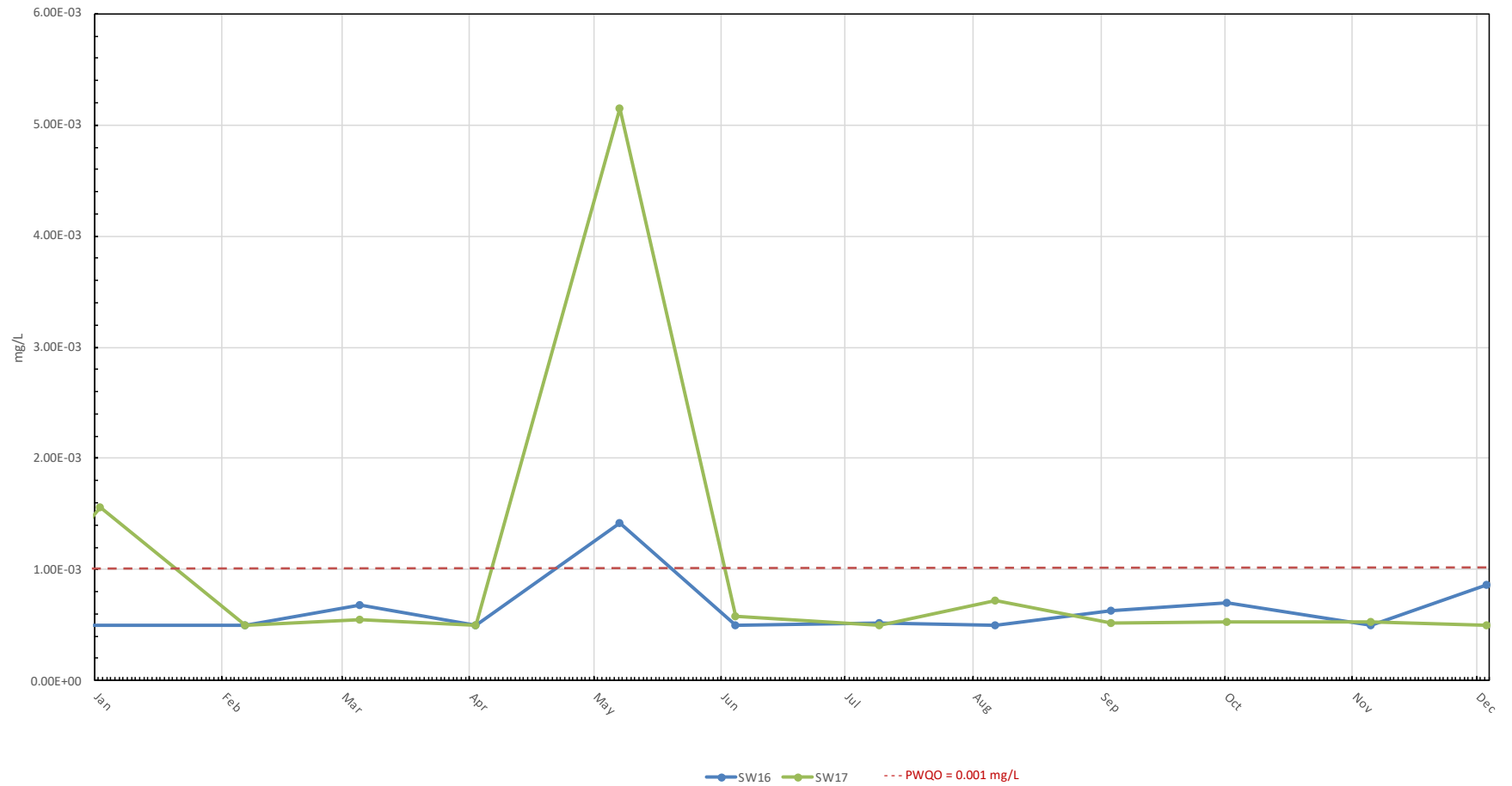


Figure 94: Rainy River Mine, Total Cobalt in Rainy River 2015-2024

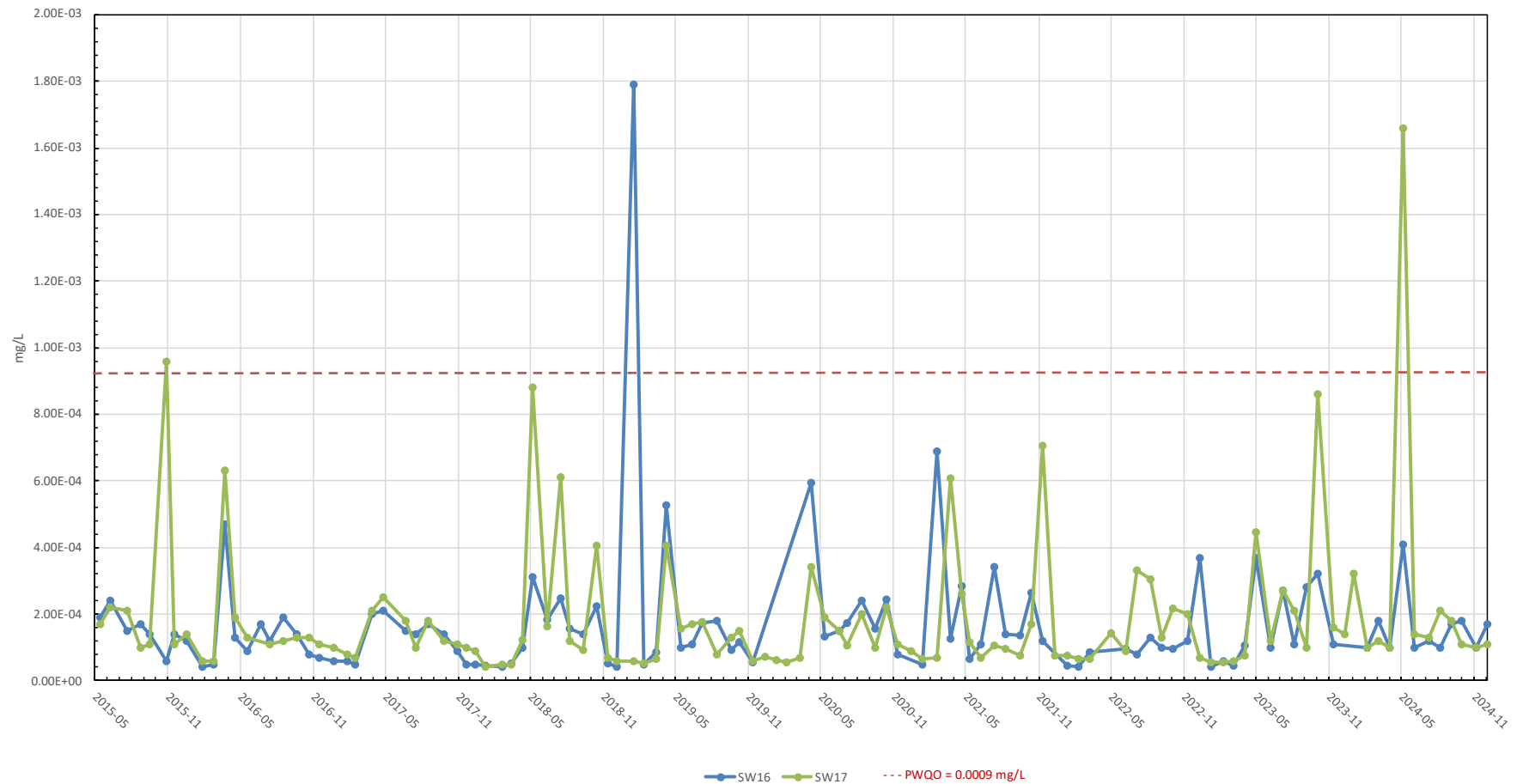


Figure 95: Rainy River Mine, Total Cobalt in Rainy River 2024

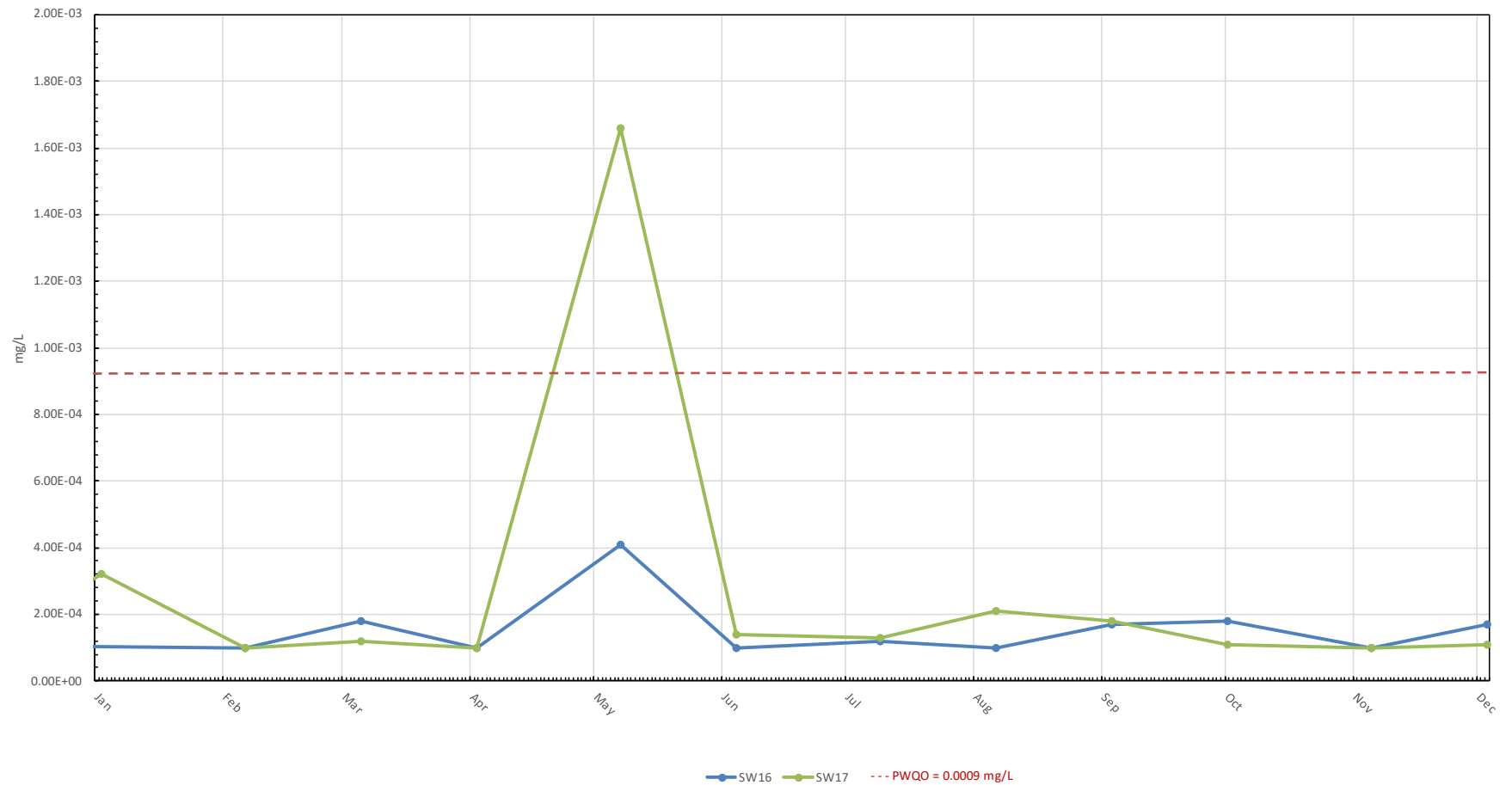


Figure 96: Rainy River Mine, Total Iron in Rainy River 2015-2024

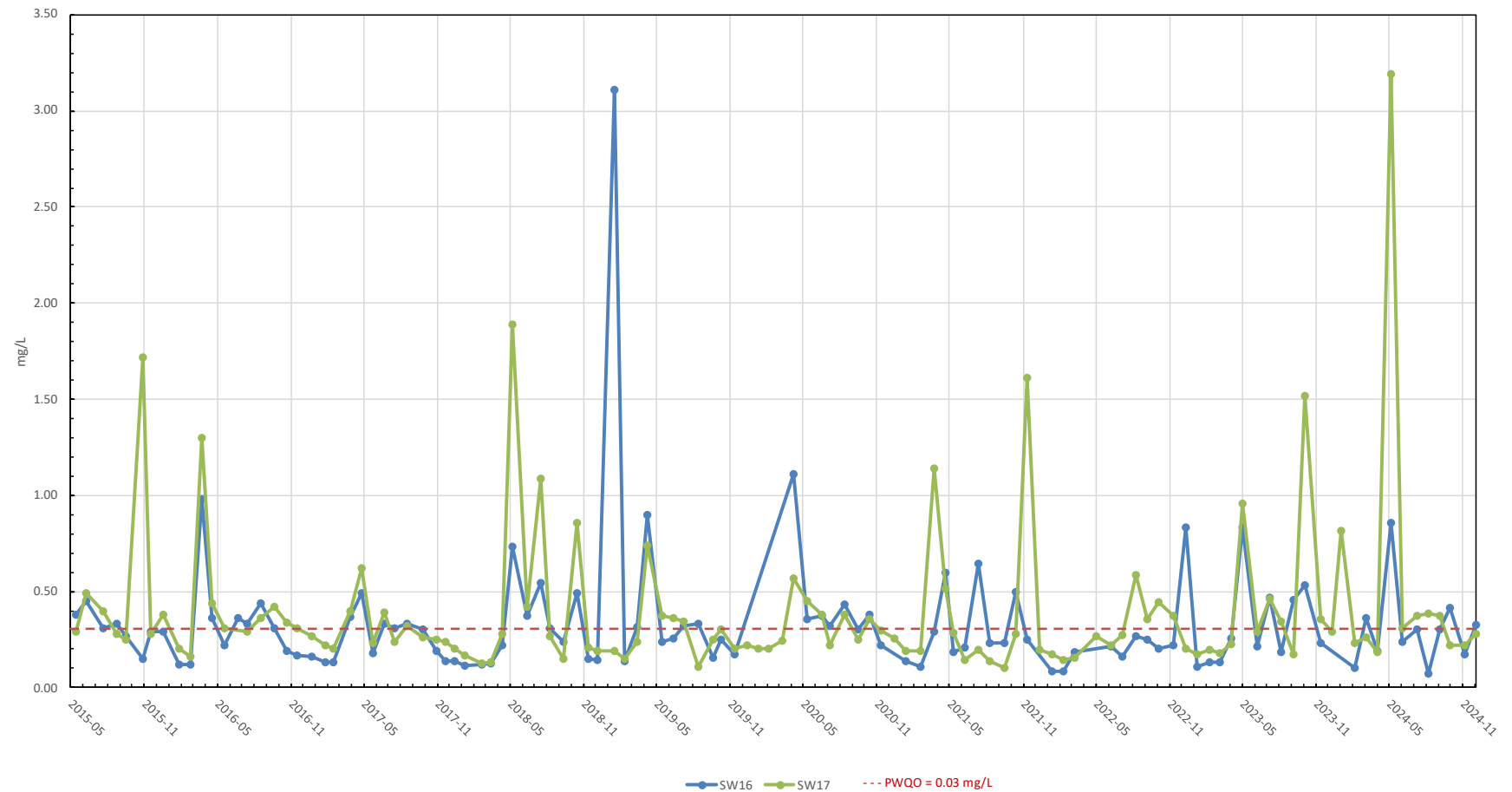
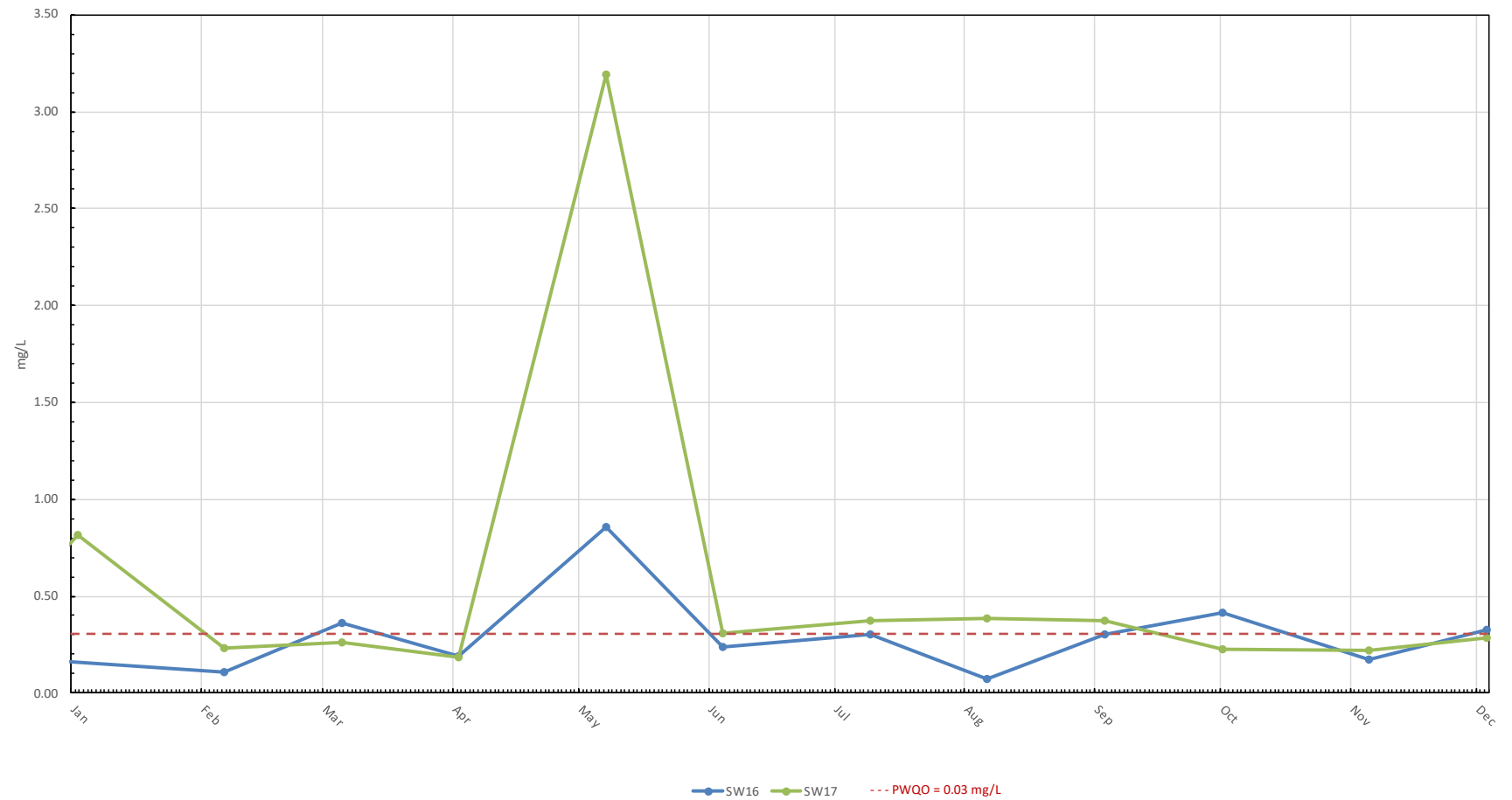


Figure 97: Rainy River Mine, Total Iron in Rainy River 2024





## 2024 Annual Surface Water Report Appendix A

### Certification by Owner

March 31, 2025

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, 2024 Annual Surface Water Report,  
Environmental Compliance Approval #2290-CAVKGN Condition 12(9)**

Regarding the Rainy River Mine located in Un-surveyed 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 or [garnet.cornell@newgold.com](mailto:garnet.cornell@newgold.com).

Sincerely,



Garnet Cornell  
Environment Manager  
New Gold, Rainy River Mine

cc: MECP Northern Region Kenora Area Office

## 2024 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<br>(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)                                          |



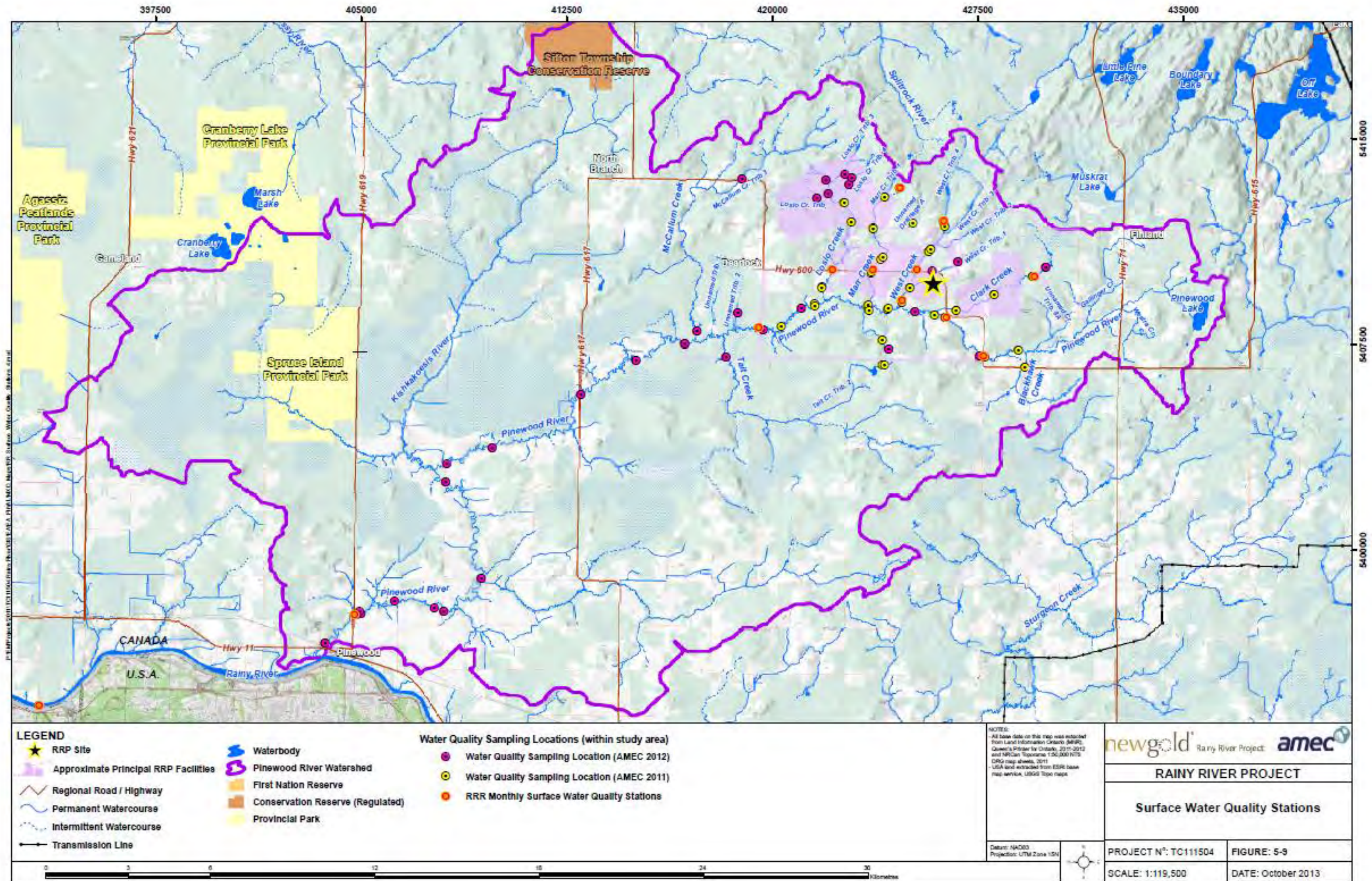
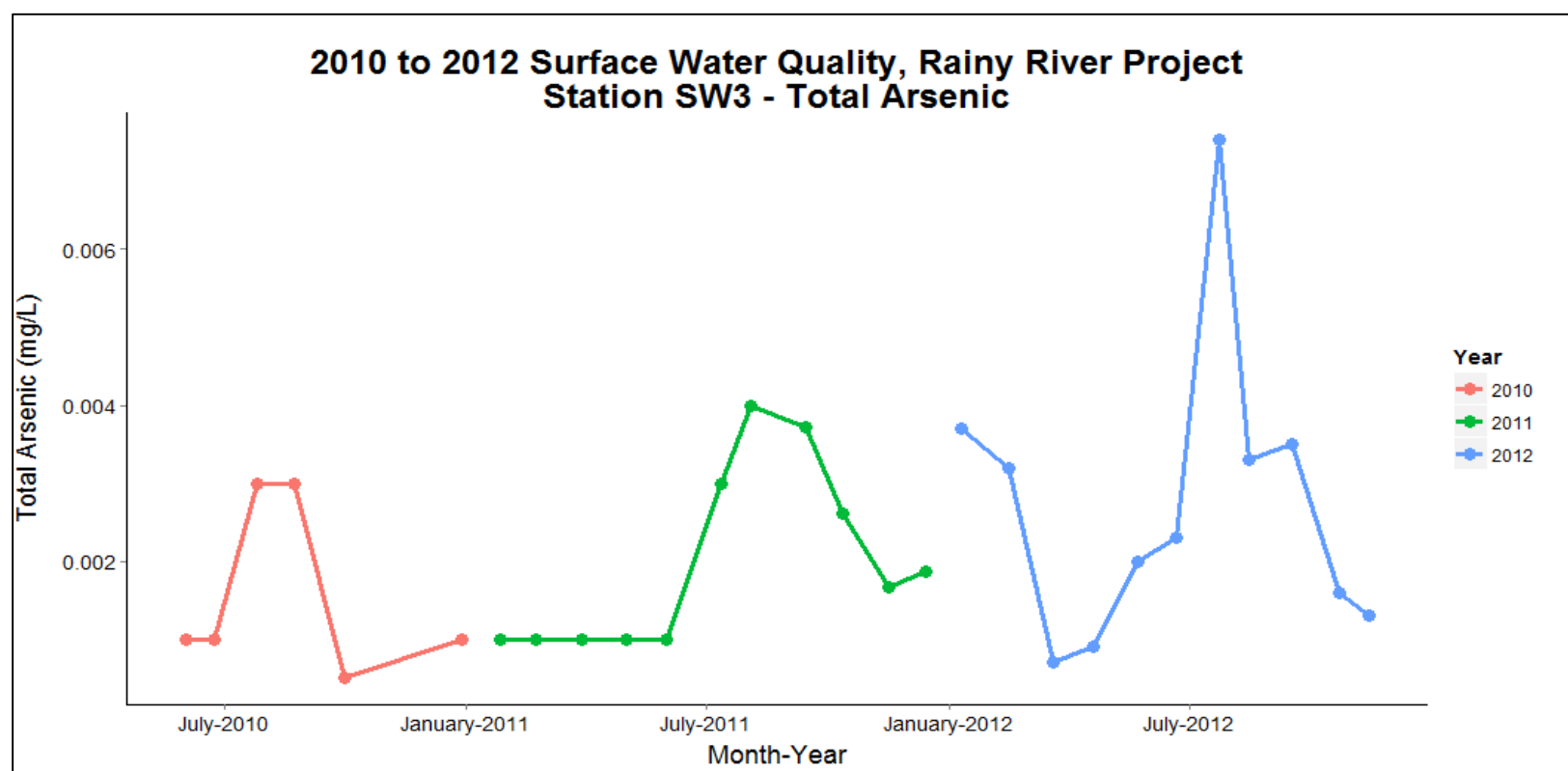
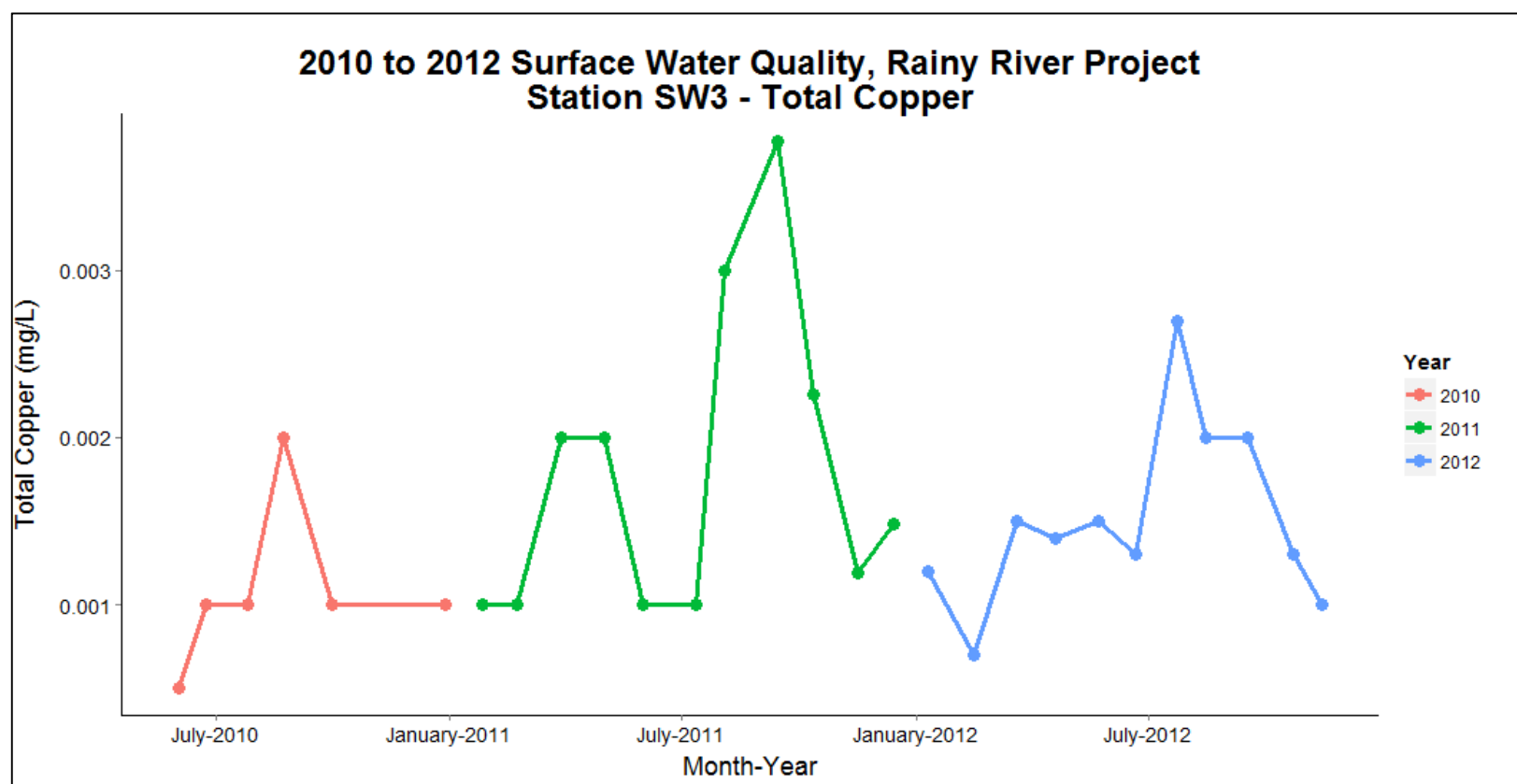




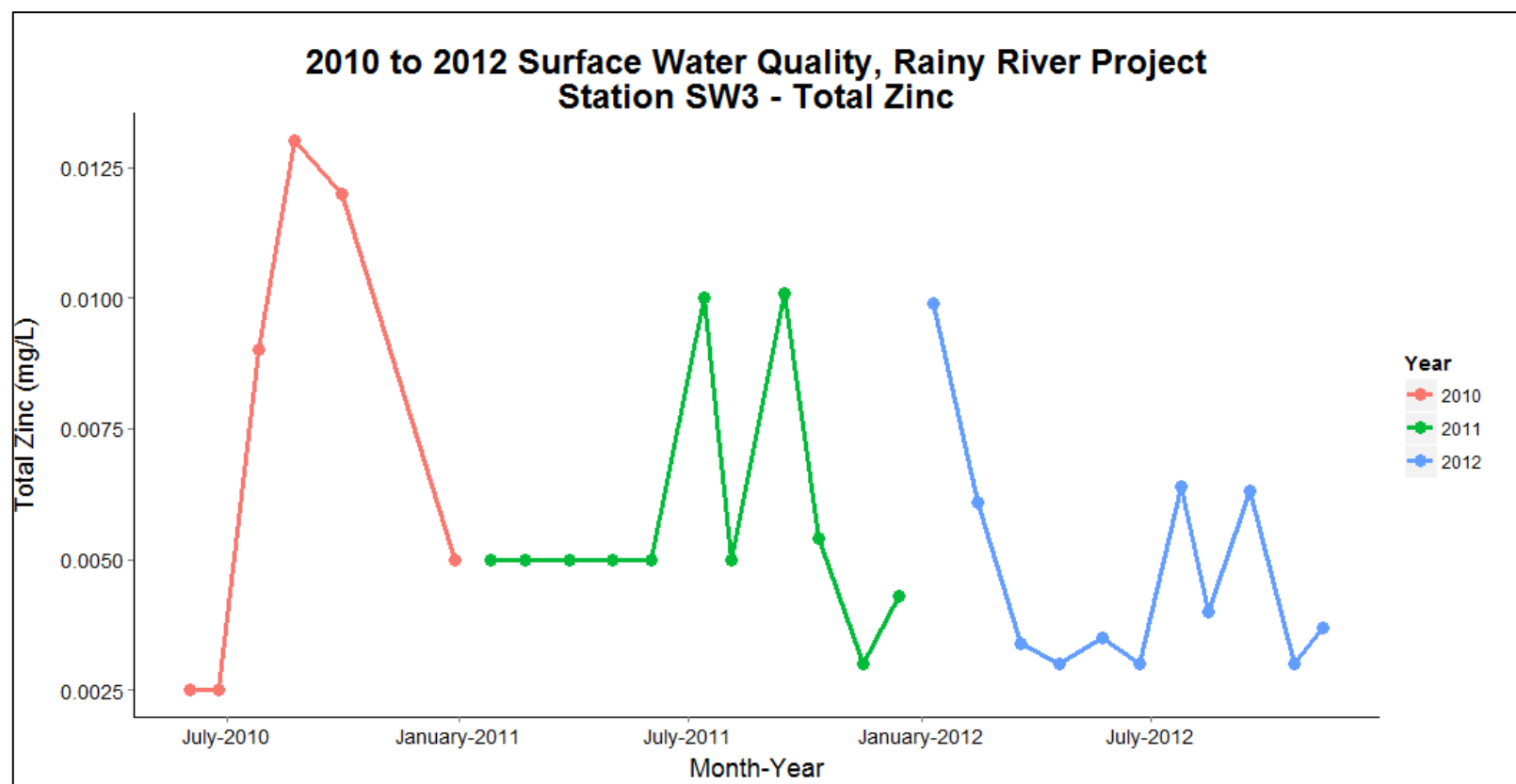
TABLE 5-22: 2010 TO 2012 SURFACE WATER ANALYTICAL RESULTS

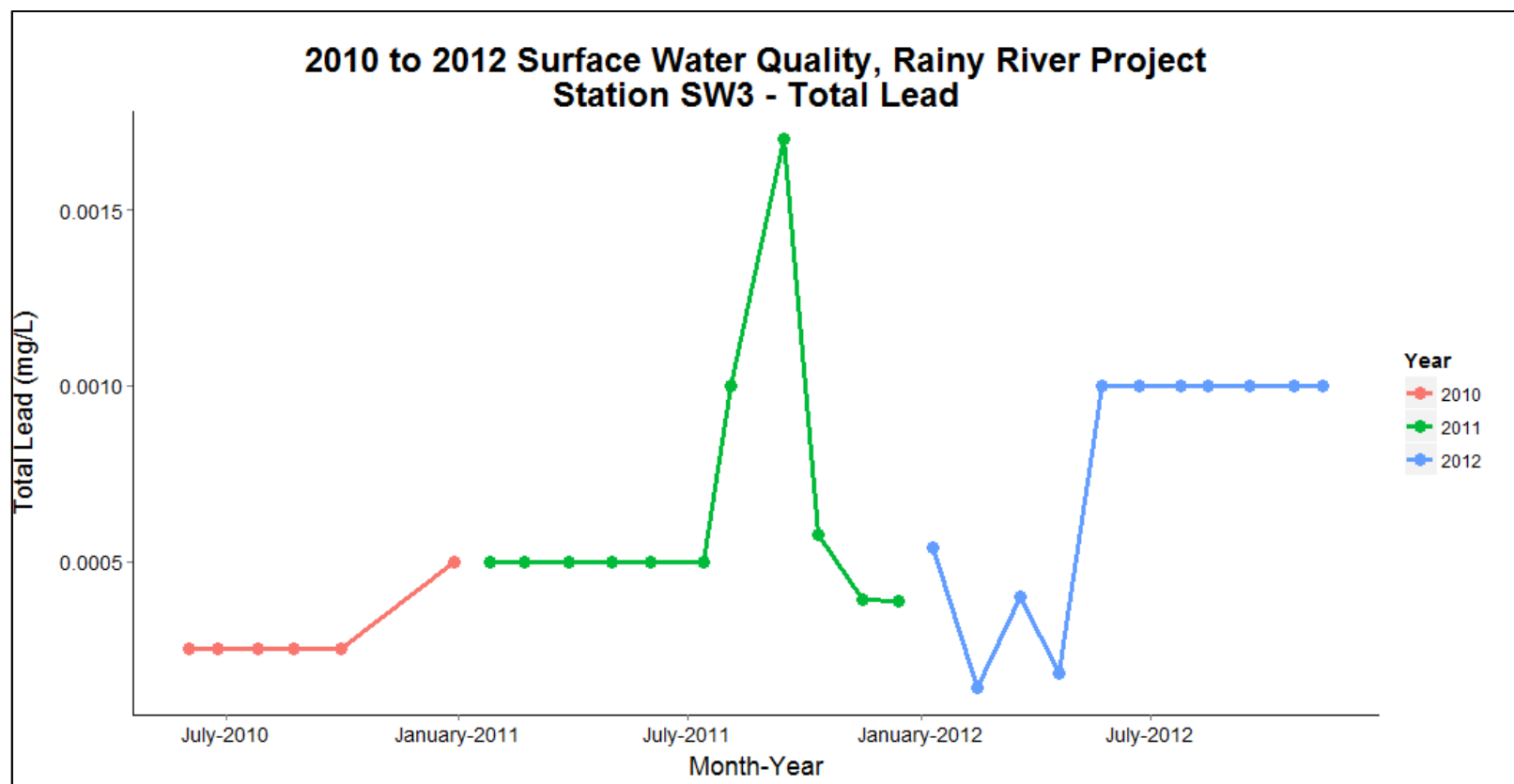
|      |         | pH      | Conductivity | Hardness as CaCO <sub>3</sub> | Dissolved Organic Carbon | TSS   | Total Ammonia-N | Fluoride | Nitrate | Nitrite | Cyanide-Total      | Aluminum-Dissolved | Aluminum-Total | Antimony-Total                                     | Arsenic-Total | Boron-Total      | Cadmium-Total                             | Chromium-Total             | Cobalt-Total | Copper-Total                | Iron-Total   | Lead-Total                                 | Mercury-Total     | Molybdenum-Total   | Nickel-Total       | Phosphorus-Total  | Selenium-Total                                | Thallium-Total               | Uranium-Total | Vanadium-Total     | Zinc-Total               |      |
|------|---------|---------|--------------|-------------------------------|--------------------------|-------|-----------------|----------|---------|---------|--------------------|--------------------|----------------|----------------------------------------------------|---------------|------------------|-------------------------------------------|----------------------------|--------------|-----------------------------|--------------|--------------------------------------------|-------------------|--------------------|--------------------|-------------------|-----------------------------------------------|------------------------------|---------------|--------------------|--------------------------|------|
| PWQO |         | 6.5-8.5 | -            | -                             | -                        | -     | -               | -        | -       | -       | 0.005 <sup>A</sup> | 0.075 <sup>B</sup> | -              | 0.02 <sup>C</sup>                                  | 0.1(0.005)    | 0.2 <sup>D</sup> | 0.0002                                    | 0.001 / 0.008 <sup>E</sup> | 0.0009       | 0.005 (0.005) <sup>F</sup>  | 0.3          | 0.020 / 0.025 (0.003 / 0.005) <sup>G</sup> | 0.0002            | 0.04 <sup>H</sup>  | 0.025              | 0.03 <sup>I</sup> | 0.1                                           | 0.0003 <sup>J</sup>          | 0.005         | 0.006 <sup>K</sup> | 0.03(0.02)               |      |
| CEQG |         | 6.5-9.0 | -            | -                             | -                        | -     | -               | 0.12     | 2.935   | 0.06    | 0.005 <sup>A</sup> | 0.1 <sup>C</sup>   | -              | -                                                  | 0.005         | 1.5              | 0.00015-0.00088 <sup>D</sup>              | 0.001 / 0.008 <sup>E</sup> | -            | 0.002 - 0.0062 <sup>F</sup> | 0.3          | 0.00102 - 0.0134 <sup>G</sup>              | 0.000026          | 0.073 <sup>H</sup> | 0.025 <sup>I</sup> | -                 | 0.001                                         | 0.0008                       | 0.015         | -                  | 0.03                     |      |
| RDL  |         | 0.10    | 3.0          | 5.0                           | 1.0                      | 2.0   | 0.020           | 0.030    | 0.030   | 0.020   | 0.0020             | 0.0050             | 0.0050         | 0.00010 / 0.00050 / 0.00060 / 0.00090 <sup>D</sup> | 0.0010        | 0.050            | 0.000010 / 0.00017 / 0.00090 <sup>D</sup> | 0.00050 / 0.0010           | 0.00050      | 0.00070 / 0.0010            | 0.020        | 0.00010 / 0.0010                           | 0.000010 / 0.0010 | 0.00020 / 0.0010   | 0.0020             | 0.00050           | 0.00050 / 0.00040 / 0.00020 / 0.0010 / 0.0020 | 0.000030 / 0.00050 / 0.00030 | 0.0050        | 0.0010             | 0.0020 / 0.0030 / 0.0050 |      |
|      |         | units   | uS/cm        | mg/L                          | mg/L                     | mg/L  | mg/L            | mg/L     | mg/L    | mg/L    | mg/L               | mg/L               | mg/L           | mg/L                                               | mg/L          | mg/L             | mg/L                                      | mg/L                       | mg/L         | mg/L                        | mg/L         | mg/L                                       | mg/L              | mg/L               | mg/L               | mg/L              | mg/L                                          | mg/L                         | mg/L          | mg/L               | mg/L                     | mg/L |
| SW1A | Min     | 7.17    | 180.0        | 79.0                          | 11.1                     | 4.7   | 0.020           | 0.030    | 0.030   | 0.01    | 0.0020             | 0.0025             | 0.042          | 0.0001                                             | 0.0007        | 0.010            | 0.00001                                   | 0.0005                     | 0.0002       | 0.0009                      | 0.266        | 0.0002                                     | 0.00001           | 0.0003             | 0.0010             | 0.028             | 0.0002                                        | 0.00001                      | 0.0003        | 0.0006             | 0.0010                   |      |
|      | Max     | 8.83    | 574.0        | 301.0                         | 38.9                     | 74.0  | 0.134           | 0.107    | 0.795   | 0.02    | 0.0050             | 0.0570             | 0.521          | 0.0050                                             | 0.0030        | 0.050            | 0.0001                                    | 0.0050                     | 0.0006       | 0.0020                      | <b>0.942</b> | 0.0036                                     | 0.0001            | 0.0010             | 0.0079             | <b>0.130</b>      | <b>0.0020</b>                                 | 0.00030                      | 0.0050        | 0.0020             | 0.03                     |      |
|      | Median  | 7.70    | 331.0        | 183.0                         | 21.4                     | 10.0  | 0.033           | 0.090    | 0.048   | 0.02    | 0.0020             | 0.0095             | 0.256          | 0.0005                                             | 0.0013        | 0.021            | 0.00004                                   | 0.0012                     | 0.0005       | 0.0010                      | <b>0.615</b> | 0.0005                                     | 0.00005           | 0.0010             | 0.0020             | <b>0.063</b>      | 0.0010                                        | 0.00005                      | 0.0007        | 0.0012             | 0.0048                   |      |
|      | St Dev. | 0.29    | 97.3         | 56.9                          | 6.9                      | 15.5  | 0.026           | 0.025    | 0.143   | 0.01    | 0.0013             | 0.0116             | 0.132          | 0.0009                                             | 0.0008        | 0.015            | 0.00004                                   | 0.0018                     | 0.0001       | 0.0004                      | 0.195        | 0.0007                                     | 0.00004           | 0.0003             | 0.0012             | 0.027             | 0.0006                                        | 0.00012                      | 0.0019        | 0.0005             | 0.0064                   |      |
|      | N       | 28      | 28           | 23                            | 28                       | 28    | 28              | 28       | 28      | 28      | 28                 | 28                 | 28             | 28                                                 | 28            | 28               | 28                                        | 28                         | 28           | 28                          | 28           | 28                                         | 28                | 25                 | 28                 | 28                | 23                                            | 28                           | 28            | 28                 | 28                       |      |
|      | 75th %  | 7.90    | 384.5        | 216.5                         | 25.2                     | 18.6  | 0.050           | 0.100    | 0.100   | 0.02    | 0.0050             | 0.0143             | 0.369          | 0.0005                                             | 0.0026        | 0.033            | 0.00010                                   | 0.0050                     | 0.0005       | 0.0013                      | <b>0.775</b> | 0.0010                                     | 0.0001            | 0.0010             | 0.0022             | <b>0.093</b>      | <b>0.0020</b>                                 | 0.00011                      | 0.0031        | 0.0020             | 0.0053                   |      |
| SW2  | Min     | 7.30    | 136.0        | 72.1                          | 8.9                      | 2.0   | 0.020           | 0.030    | 0.030   | 0.01    | 0.0020             | 0.0021             | 0.019          | 0.00005                                            | 0.00050       | 0.0050           | 0.000005                                  | 0.00050                    | 0.00007      | 0.0005                      | 0.174        | 0.00005                                    | 0.000010          | 0.00031            | 0.0010             | 0.0128            | 0.00020                                       | 0.000003                     | 0.00010       | 0.00050            | 0.0022                   |      |
|      | Max     | 9.38    | 447.0        | 256.0                         | 28.4                     | 142.0 | 0.088           | 0.114    | 0.383   | 0.02    | 0.0050             | 0.035              | 0.610          | 0.0050                                             | 0.0030        | 0.050            | <b>0.000100</b>                           | 0.0050                     | 0.0010       | <b>0.0040</b>               | <b>1.03</b>  | <b>0.0012</b>                              | 0.0001            | 0.0010             | 0.0030             | <b>0.126</b>      | <b>0.0020</b>                                 | 0.00030                      | 0.0050        | 0.0032             | <b>0.0506</b>            |      |
|      | Median  | 7.83    | 244.0        | 155.5                         | 19.9                     | 6.9   | 0.029           | 0.076    | 0.050   | 0.01    | 0.00050            | 0.0130             | 0.140          | 0.0005                                             | 0.0010        | 0.011            | 0.000050                                  | 0.0025                     | 0.00050      | 0.0011                      | <b>0.550</b> | 0.0005                                     | 0.000075          | 0.0010             | 0.0020             | <b>0.038</b>      | <b>0.0020</b>                                 | 0.00005                      | 0.0003        | 0.0010             | 0.0050                   |      |
|      | St Dev. | 0.44    | 86.5         | 56.1                          | 4.6                      | 24.2  | 0.019           | 0.025    | 0.064   | 0.01    | 0                  | 0.0087             | 0.122          | 0.0008                                             | 0.00062       | 0.0144           | 0.000037                                  | 0.00189                    | 0.00017      | 0.0009                      | 0.268        | 0.00031                                    | 0.00004           | 0.00026            | 0.0006             | <b>0.029</b>      | 0.00063                                       | 0.00010                      | 0.0017        | 0.00053            | 0.0082                   |      |
|      | N       | 35      | 35           | 20                            | 35                       | 35    | 33              | 33       | 33      | 33      | 33                 | 33                 | 33             | 33                                                 | 33            | 33               | 33                                        | 33                         | 33           | 33                          | 33           | 33                                         | 30                | 33                 | 33                 | 20                | 33                                            | 33                           | 33            | 33                 | 33                       |      |
|      | 75th %  | 8.00    | 293.5        | 205.3                         | 22.7                     | 17.0  | 0.050           | 0.100    | 0.100   | 0.02    | 0.0050             | 0.020              | 0.215          | 0.0005                                             | 0.0012        | 0.015            | 0.000100                                  | 0.0050                     | 0.00050      | 0.0020                      | <b>0.860</b> | 0.0005                                     | 0.0001            | 0.0010             | 0.0020             | <b>0.060</b>      | <b>0.0020</b>                                 | 0.00005                      | 0.0008        | 0.0012             | 0.0050                   |      |
| SW3  | Min     | 7.27    | 181.0        | 83.0                          | 9.0                      | 4.0   | 0.020           | 0.030    | 0.030   | 0.005   | 0.0020             | 0.0029             | 0.082          | 0.00008                                            | 0.00050       | 0.010            | 0.000011                                  | 0.0005                     | 0.00022      | 0.00050                     | <b>0.290</b> | 0.00014                                    | 0.000010          | 0.00041            | 0.0010             | 0.0292            | 0.00031                                       | 0.000004                     | 0.00030       | 0.00050            | 0.0025                   |      |
|      | Max     | 8.61    | 780.0        | 450.0                         | 39.4                     | 45.2  | 0.47            | 0.136    | 0.381   | 0.020   | 0.0050             | 0.038              | 2.77           | 0.0050                                             | <b>0.0074</b> | 0.050            | 0.000100                                  | 0.0050                     | 0.0047       | <b>0.0038</b>               | <b>3.72</b>  | <b>0.0017</b>                              | 0.0001            | 0.0015             | 0.0050             | <b>0.194</b>      | <b>0.0020</b>                                 | 0.00030                      | 0.0050        | <b>0.0084</b>      | 0.0130                   |      |
|      | Median  | 7.80    | 343.0        | 195.0                         | 21.1                     | 12.4  | 0.025           | 0.093    | 0.050   | 0.020   | 0.0020             | 0.0101             | 0.300          | 0.00050                                            | 0.0018        | 0.019            | 0.000050                                  | 0.0025                     | 0.00050      | 0.0013                      | <b>0.789</b> | 0.0005                                     | 0.00005           | 0.0010             | 0.0020             | <b>0.069</b>      | 0.00100                                       | 0.00005                      | 0.0010        | 0.0014             | 0.0050                   |      |
|      | St Dev. | 0.30    | 125.0        | 75.7                          | 6.7                      | 10.8  | 0.08            | 0.026    | 0.070   | 0       | 0                  | 0.0083             | 0.505          | 0.0009                                             | 0.0015        | 0.015            | 0.000035                                  | 0.0018                     | 0.00107      | 0.00076                     | <b>0.74</b>  | 0.00037                                    | 0.00004           | 0.00030            | 0.0012             | 0.044             | 0.00063                                       | 0.00012                      | 0.0019        | 0.0015             | 0.0029                   |      |
|      | N       | 29      | 29           | 23                            | 29                       | 29    | 28              | 28       | 28      | 28      | 28                 | 28                 | 28             | 28                                                 | 28            | 28               | 28                                        | 28                         | 28           | 28                          | 28           | 28                                         | 28                | 25                 | 28                 | 28                | 23                                            | 28                           | 28            | 28                 | 28                       |      |
|      | 75th %  | 7.97    | 366.0        | 208.5                         | 25.6                     | 18.0  | 0.050           | 0.100    | 0.100   | 0.020   | 0.0050             | 0.015              | 0.389          | 0.00053                                            | 0.0031        | 0.037            | 0.000100                                  | 0.0050                     | 0.00065      | 0.0020                      | <b>0.93</b>  | 0.0010                                     | 0.0001            | 0.0010             | 0.0033             | <b>0.105</b>      | <b>0.0020</b>                                 | 0.00011                      | 0.0027        | 0.0020             | 0.0063                   |      |
| SW4  | Min     | 6.64    | 74.0         | 34.9                          | 7.9                      | 1.0   | 0.020           | 0.030    | 0.030   | 0.005   | 0.0020             | 0.0056             | 0.018          | 0.00003                                            | 0.00030       | 0.0050           | 0.000005                                  | 0.00050                    | 0.000085     | 0.00050                     | 0.140        | 0.00009                                    | 0.000010          | 0.00005            | 0.0004             | 0.0123            | 0.00020                                       | 0.000003                     | 0.000012      | 0.00020            | 0.0024                   |      |
|      | Max     | 8.32    | 168.0        | 81.0                          | 32.7                     | 13.0  | 0.20            | 0.100    | 0.100   | 0.020   | 0.0050             | 0.028              | 0.244          | 0.0050                                             | 0.0010        | 0.050            | 0.000100                                  | 0.0050                     | 0.00070      | 0.0010                      | <b>1.200</b> | 0.0010                                     | 0.0001            | 0.0010             | <b>0.092</b>       | <b>0.037</b>      | <b>0.0020</b>                                 | 0.00030                      | 0.0050        | 0.0010             |                          |      |

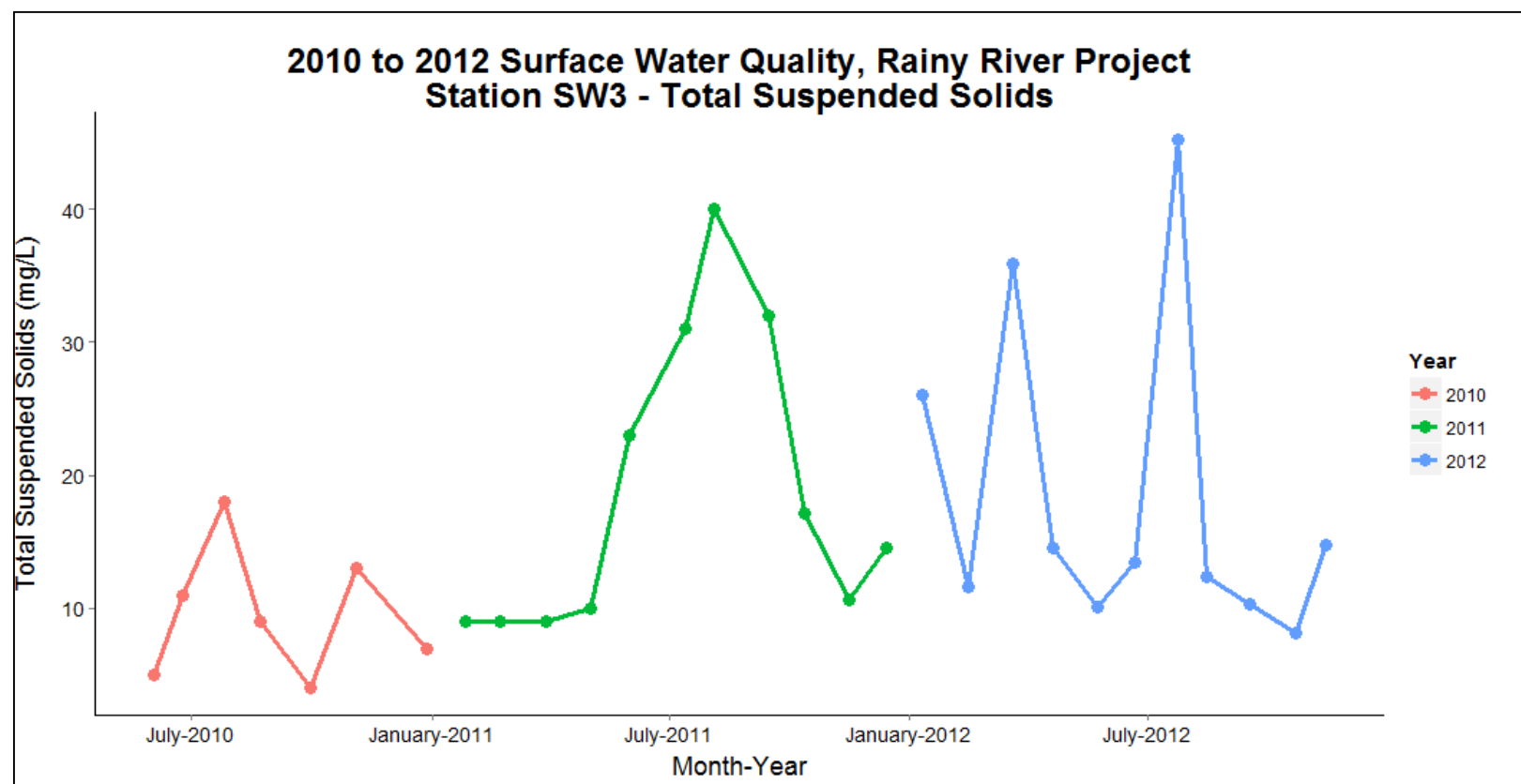


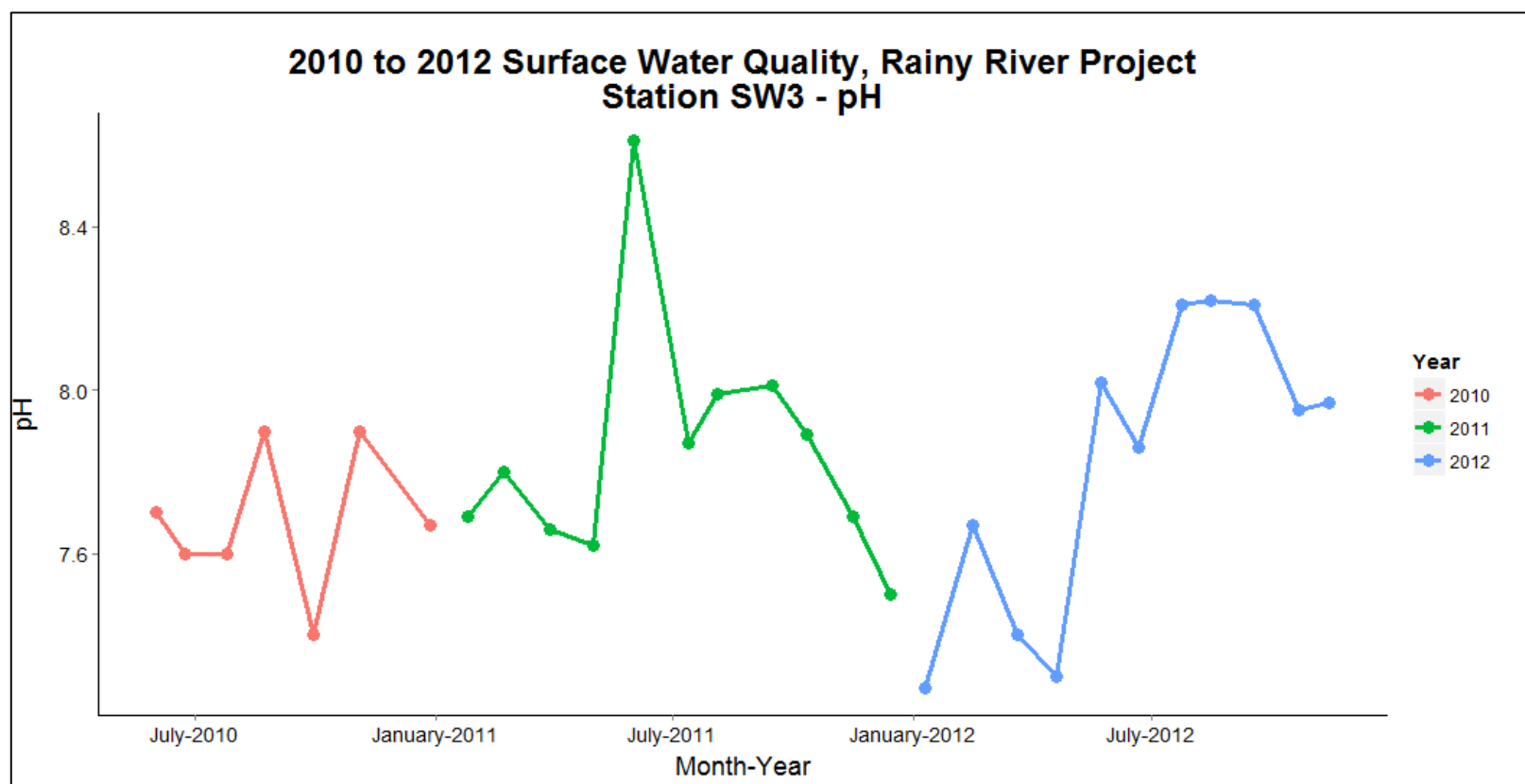


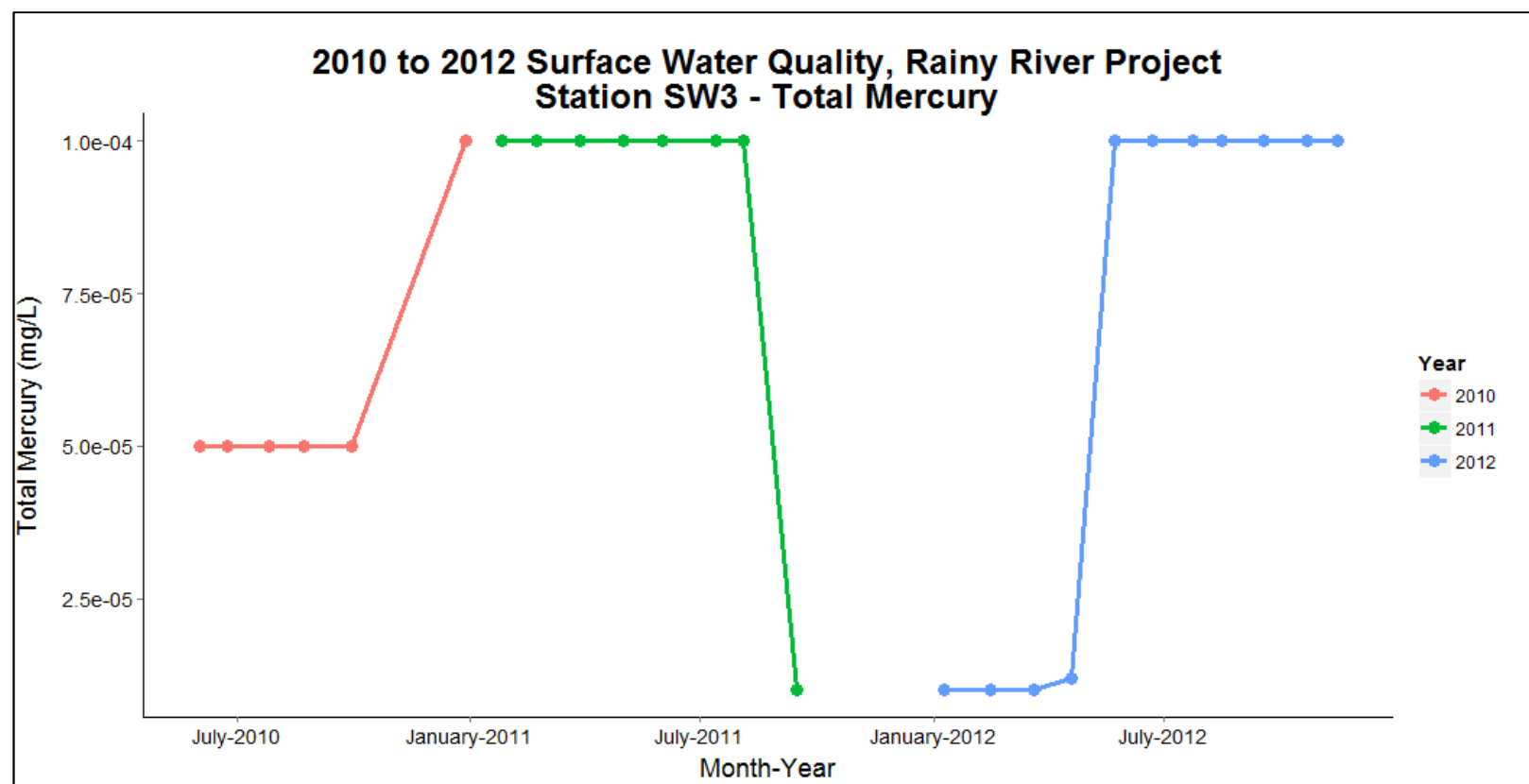


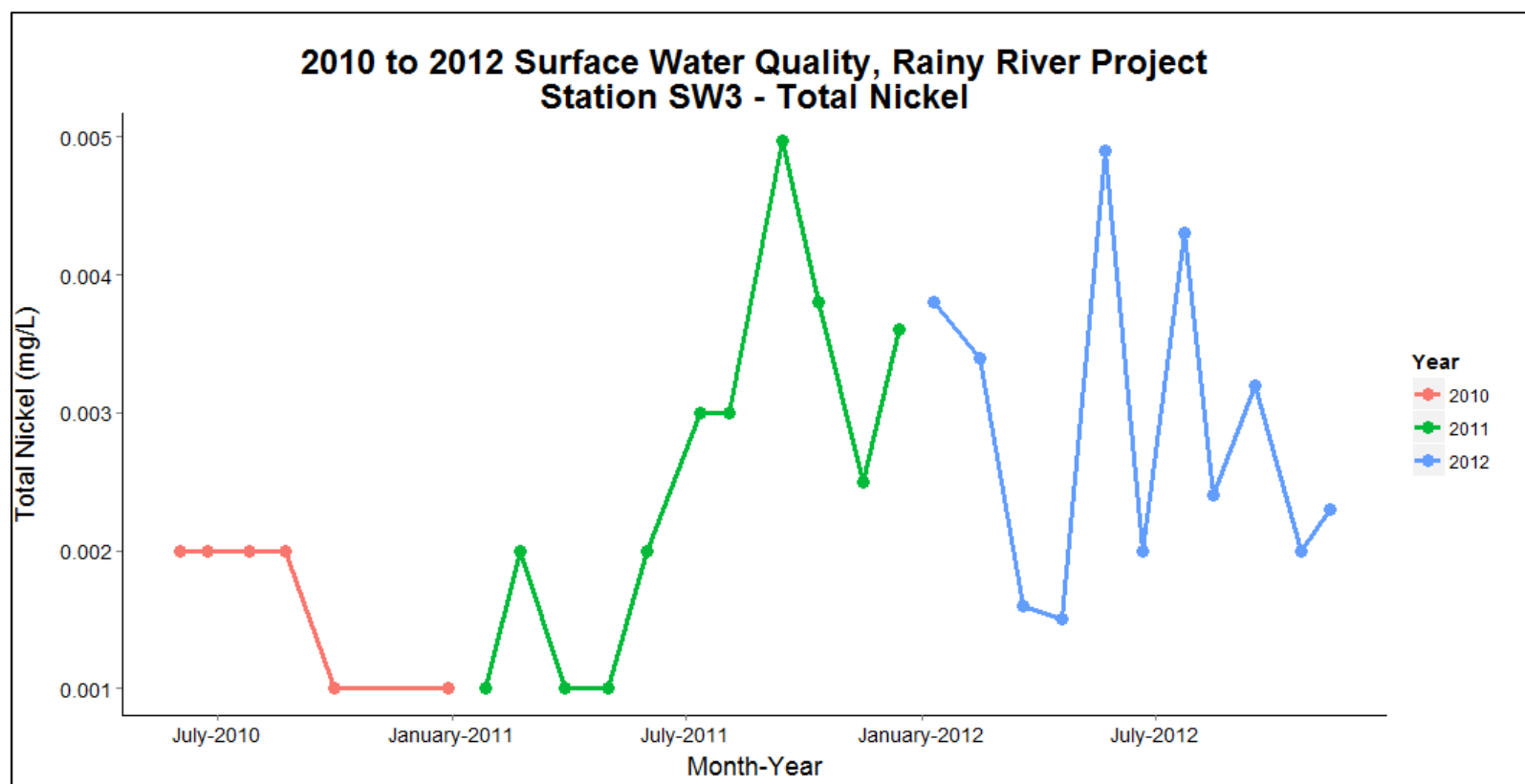












2024 Annual Surface Water Report  
Appendix C

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

Table C1: January 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.36     | 0.32              | 375          | 163      | 0.001              | 0.00079        | 0.00211       | 0.002         | 0.000139    | 0.00158       | 0.003       | 3.9                    | 0.222           | 0.000008       | 0.0006          | 0.0003        | 0.71        | 0.000005       | 0.05              |
|                | SW10      | 7.33     | 0.16              | 353          | 166      | 0.001              | 0.00093        | 0.00457       | 0.002         | 0.000224    | 0.00174       | 0.003       | 6.3                    | 0.356           | 0.000011       | 0.0008          | 0.00036       | 0.74        | 0.000005       | 0.05              |
|                | SW21A     | 7.57     | 0.05              | 369          | 174      | 0.001              | 0.00074        | 0.00111       | 0.002         | 0.000117    | 0.00154       | 0.003       | 3                      | 0.138           | 0.000007       | 0.0005          | 0.00034       | 0.68        | 0.000005       | 0.06              |
|                | SW22A     | 7.57     | -0.11             | 377          | 183      | 0.001              | 0.00081        | 0.00124       | 0.002         | 0.00015     | 0.00152       | 0.003       | 4.7                    | 0.195           | 0.000005       | 0.00062         | 0.00034       | 0.69        | 0.000005       | 0.05              |
|                | SW03      | 7.13     | 0.27              | 388          | 184      | 0.001              | 0.00097        | 0.00414       | 0.002         | 0.000309    | 0.0022        | 0.0047      | 14.1                   | 0.472           | 0.000011       | 0.00104         | 0.00055       | 0.98        | 0.000005       | 0.053             |
|                | SW23      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW24      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW15      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
| Clark Creek    | SW28A     | 7.45     | 0.15              | 225          | 127      | 0.001              | 0.00086        | 0.00535       | 0.002         | 0.00005     | 0.00105       | 0.003       | 3                      | 0.0306          | 0.000005       | 0.0005          | 0.00047       | 0.32        | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.79     | 0.29              | 146          | 84.7     | 0.001              | 0.00087        | 0.00162       | 0.002         | 0.00016     | 0.0006        | 0.0034      | 3                      | 0.0800          | 0.000005       | 0.0005          | 0.00051       | 0.73        | 0.000005       | 0.05              |
|                | SW25      | 7.81     | 0.2               | 304          | 156      | 0.001              | 0.00098        | 0.00292       | 0.002         | 0.000613    | 0.0014        | 0.0124      | 3.5                    | 0.3080          | 0.000016       | 0.0008          | 0.00031       | 0.70        | 0.000005       | 0.05              |
|                | SW26      | 7.46     | 0.13              | 333          | 175      | 0.001              | 0.00098        | 0.00345       | 0.002         | 0.000326    | 0.00123       | 0.0171      | 3.5                    | 0.2730          | 0.000017       | 0.00068         | 0.00023       | 0.58        | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 7.91     | -0.06             | 395          | 201      | 0.001              | 0.00094        | 0.00141       | 0.002         | 0.000238    | 0.00131       | 0.010       | 3                      | 0.228           | 0.0000053      | 0.00064         | 0.00024       | 0.58        | 0.000005       | 0.05              |
| McCallum Creek | SW29A     | 6.99     | 0.48              | 261          | 143      | 0.001              | 0.00067        | 0.00314       | 0.002         | 0.000088    | 0.00106       | 0.003       | 3                      | 0.0655          | 0.000005       | 0.0005          | 0.00029       | 0.43        | 0.000005       | 0.05              |
| Rainy River    | SW16      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW17      | 7.49     | -0.2              | 114          | 54.5     | 0.001              | 0.00071        | 0.00162       | 0.002         | 0.000353    | 0.00154       | 0.005       | 5.9                    | 0.522           | 0.00002        | 0.00156         | 0.00032       | 0.82        | 0.000005       | 0.05              |

Table C2: February 2024 Surface Water Quality for Selected Parameter

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.04     | 0.15              | 363          | 171      | 0.001              | 0.00116        | 0.00076       | 0.002         | 0.000293    | 0.00166       | 0.0035      | 9.5                    | 0.362           | 0.000011       | 0.0008          | 0.00086       | 1.64        | 0.000005       | 0.063             |
|                | SW10      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW21A     | 6.82     | 0.07              | 452          | 213      | 0.001              | 0.00164        | 0.00066       | 0.002         | 0.000165    | 0.00193       | 0.003       | 9.1                    | 0.153           | 0.000009       | 0.00058         | 0.00242       | 3.34        | 0.000005       | 0.27              |
|                | SW22A     |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW03      | 7.05     | 0.77              | 464          | 222      | 0.001              | 0.0014         | 0.00164       | 0.002         | 0.000348    | 0.00244       | 0.006       | 10.7                   | 0.416           | 0.000021       | 0.00098         | 0.00148       | 2.02        | 0.000005       | 0.139             |
|                | SW23      | 7.01     | -0.2              | 398          | 203      | 0.001              | 0.0013         | 0.00146       | 0.002         | 0.000394    | 0.00237       | 0.0056      | 7.7                    | 0.363           | 0.000027       | 0.0009          | 0.00087       | 1.69        | 0.000005       | 0.084             |
|                | SW24      | 7.05     | 0.77              | 425          | 215      | 0.001              | 0.00151        | 0.00179       | 0.002         | 0.000419    | 0.00271       | 0.0107      | 11.1                   | 0.459           | 0.000036       | 0.0013          | 0.00093       | 1.85        | 0.000005       | 0.087             |
|                | SW15      | 7.29     | -0.2              | 108          | 44.7     | 0.001              | 0.0006         | 0.00186       | 0.002         | 0.00106     | 0.0012        | 0.0106      | 15.1                   | 0.392           | 0.0000277      | 0.00103         | 0.00025       | 0.573       | 0.000005       | 0.05              |
| Clark Creek    | SW28A     | 7.51     | 0                 | 272          | 149      | 0.001              | 0.0009         | 0.00109       | 0.002         | 0.000067    | 0.00119       | 0.003       | 3.3                    | 0.106           | 0.000005       | 0.0005          | 0.00025       | 0.40        | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.95     | 0.05              | 187          | 107      | 0.001              | 0.00083        | 0.0005        | 0.002         | 0.00013     | 0.00068       | 0.003       | 3                      | 0.0760          | 0.0000062      | 0.0005          | 0.00082       | 0.99        | 0.000005       | 0.05              |
|                | SW25      | 7.41     | -0.15             | 396          | 190      | 0.001              | 0.00099        | 0.00161       | 0.002         | 0.000237    | 0.00149       | 0.0087      | 5.5                    | 0.3290          | 0.000010       | 0.0007          | 0.00032       | 0.62        | 0.000005       | 0.05              |
|                | SW26      | 7.41     | -0.1              | 471          | 231      | 0.001              | 0.00133        | 0.00195       | 0.002         | 0.000296    | 0.00159       | 0.0429      | 5.7                    | 0.3040          | 0.0000145      | 0.00069         | 0.00028       | 0.63        | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 6.94     | 0.7               | 534          | 259      | 0.001              | 0.00115        | 0.00208       | 0.002         | 0.000256    | 0.0016        | 0.035       | 4.7                    | 0.3120          | 0.000014       | 0.0007          | 0.00035       | 0.62        | 0.000005       | 0.05              |
| McCallum Creek | SW29A     | 7.11     | -0.2              | 329          | 174      | 0.001              | 0.00081        | 0.00104       | 0.002         | 0.000289    | 0.00168       | 0.008       | 17.1                   | 0.5270          | 0.000020       | 0.00092         | 0.0009        | 1.58        | 0.000005       | 0.058             |
| Rainy River    | SW16      | 6.89     | 3.46              | 75.9         | 28.2     | 0.001              | 0.00039        | 0.00115       | 0.002         | 0.00005     | 0.00061       | 0.003       | 3                      | 0.0666          | 0.0000051      | 0.0005          | 0.0001        | 0.105       | 0.000005       | 0.05              |
|                | SW17      | 7.19     | 0.19              | 92.4         | 37.7     | 0.001              | 0.0005         | 0.00125       | 0.002         | 0.000634    | 0.00078       | 0.004       | 3.7                    | 0.1370          | 0.000025       | 0.0005          | 0.0001        | 0.23        | 0.000005       | 0.05              |



Table C3: March 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW10      | 7.27     | -0.09             | 251          | 108      | 0.001              | 0.00106        | 0.00265       | 0.002         | 0.00051     | 0.00178       | 0.008       | 19.4                   | 0.422           | 0.000023       | 0.0009          | 0.00064       | 1.01        | 0.000005       | 0.163             |
|                | SW21A     | 7.02     | -0.04             | 299          | 142      | 0.001              | 0.00091        | 0.00192       | 0.002         | 0.00028     | 0.00158       | 0.005       | 6.8                    | 0.200           | 0.000013       | 0.00052         | 0.0005        | 0.95        | 0.000005       | 0.09              |
|                | SW22A     | 6.74     | -0.18             | 306          | 147      | 0.001              | 0.00101        | 0.00296       | 0.002         | 0.00043     | 0.00167       | 0.005       | 12.4                   | 0.287           | 0.000014       | 0.00073         | 0.00052       | 1.00        | 0.000005       | 0.09              |
|                | SW03      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW23      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW24      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW15      | 7.34     | 0.13              | 313          | 152      | 0.001              | 0.00115        | 0.00276       | 0.002         | 0.00042     | 0.00236       | 0.0065      | 17.8                   | 0.554           | 0.0000235      | 0.00117         | 0.00046       | 1.06        | 0.000005       | 0.217             |
| Clark Creek    | SW28A     | 7.41     | -0.17             | 260          | 145      | 0.001              | 0.00097        | 0.00064       | 0.002         | 0.00005     | 0.00102       | 0.0034      | 4.6                    | 0.0334          | 0.000005       | 0.0005          | 0.00017       | 0.39        | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.71     | 0.18              | 166          | 92.8     | 0.001              | 0.00086        | 0.00099       | 0.002         | 0.0003      | 0.00078       | 0.0046      | 10.4                   | 0.1480          | 0.0000061      | 0.00051         | 0.00073       | 1.20        | 0.000005       | 0.05              |
|                | SW25      | 7.55     | -0.1              | 348          | 170      | 0.001              | 0.00269        | 0.0051        | 0.002         | 0.00322     | 0.00346       | 0.0522      | 6.8                    | 0.7260          | 0.000077       | 0.0017          | 0.00509       | 2.23        | 0.000005       | 0.193             |
|                | SW26      | 7.69     | -0.22             | 350          | 167      | 0.001              | 0.00147        | 0.00405       | 0.002         | 0.00098     | 0.00232       | 0.0296      | 27                     | 0.6090          | 0.0000295      | 0.00147         | 0.0006        | 1.30        | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 7.09     | -0.08             | 361          | 175      | 0.001              | 0.00108        | 0.00324       | 0.002         | 0.00041     | 0.00142       | 0.0145      | 7.6                    | 0.2210          | 0.000011       | 0.0006          | 0.00027       | 0.54        | 0.000005       | 0.05              |
| McCallum Creek | SW29A     | 7.29     | 0.49              | 323          | 170      | 0.001              | 0.00087        | 0.00106       | 0.002         | 0.00025     | 0.00143       | 0.006       | 11.6                   | 0.2360          | 0.000021       | 0.00051         | 0.00085       | 1.16        | 0.000005       | 0.05              |
| Rainy River    | SW16      | 7.91     | 2.17              | 87.9         | 31.8     | 0.001              | 0.00051        | 0.00439       | 0.002         | 0.00022     | 0.00107       | 0.005       | 12                     | 0.224           | 0.0000083      | 0.00068         | 0.00018       | 0.361       | 0.000005       | 0.05              |
|                | SW17      | 7.53     | 0.23              | 96.5         | 39       | 0.001              | 0.00047        | 0.00126       | 0.002         | 0.00017     | 0.00081       | 0.003       | 6.8                    | 0.1330          | 0.000017       | 0.0006          | 0.00012       | 0.26        | 0.000005       | 0.05              |

Table C4: April 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW10      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW21A     | 6.92     | 0.18              | 264          | 125      | 0.001              | 0.00109        | 0.00095       | 0.002         | 0.00019     | 0.00144       | 0.003       | 6.9                    | 0.123           | 0.000008       | 0.0005          | 0.00088       | 1.28        | 0.000005       | 0.16              |
|                | SW22A     | 7.39     | 0.46              | 257          | 121      | 0.001              | 0.00132        | 0.00319       | 0.002         | 0.00079     | 0.00173       | 0.006       | 10.9                   | 0.265           | 0.000018       | 0.00067         | 0.00068       | 0.98        | 0.000005       | 0.09              |
|                | SW03      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW23      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW24      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW15      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
| Clark Creek    | SW28A     | 7.52     | 0.3               | 219          | 117      | 0.001              | 0.00073        | 0.00077       | 0.002         | 0.000058    | 0.0009        | 0.003       | 3                      | 0.0552          | 0.000005       | 0.0005          | 0.00016       | 0.31        | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.9      | 0.86              | 196          | 106      | 0.001              | 0.00079        | 0.0005        | 0.002         | 0.000203    | 0.00068       | 0.0031      | 7.3                    | 0.1530          | 8.9E-06        | 0.0005          | 0.00064       | 1.03        | 0.000005       | 0.05              |
|                | SW25      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
|                | SW26      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
| Loslo Creek    | SW27      | 7.61     | 0.08              | 252          | 115      | 0.001              | 0.00204        | 0.00893       | 0.002         | 0.0032      | 0.0028        | 0.0206      | 11.5                   | 0.4800          | 0.000045       | 0.0014          | 0.00049       | 0.78        | 0.000005       | 0.06              |
| McCallum Creek | SW29A     | 6.85     | 2.92              | 274          | 146      | 0.001              | 0.00082        | 0.00062       | 0.002         | 0.000174    | 0.00115       | 0.003       | 11.3                   | 0.1950          | 0.000009       | 0.0005          | 0.00093       | 1.08        | 0.000005       | 0.05              |
| Rainy River    | SW16      | 6.8      | 3.78              | 93.3         | 32       | 0.001              | 0.00042        | 0.00106       | 0.002         | 0.000096    | 0.00074       | 0.003       | 4.7                    | 0.108           | 5.9E-06        | 0.0005          | 0.0001        | 0.192       | 0.000005       | 0.05              |
|                | SW17      | 6.83     | 0.4               | 91.2         | 36.6     | 0.001              | 0.00042        | 0.00091       | 0.002         | 0.000081    | 0.00066       | 0.003       | 5.3                    | 0.0921          | 0.000006       | 0.0005          | 0.0001        | 0.18        | 0.000005       | 0.05              |

Table C5: May 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.49     | 10.71             | 209          | 90.6     | 0.001              | 0.00062        | 0.00107       | 0.002         | 0.000065    | 0.00129       | 0.003       | 3                      | 0.098           | 0.000006       | 0.0005          | 0.00012       | 0.207       | 0.000005       | 0.05              |
|                | SW10      | 7.63     | 10.64             | 193          | 89       | 0.001              | 0.00088        | 0.00172       | 0.002         | 0.000388    | 0.00215       | 0.006       | 23.2                   | 0.653           | 0.000012       | 0.00146         | 0.00047       | 0.867       | 0.000005       | 0.051             |
|                | SW21A     | 7.6      | 11.7              | 297          | 126      | 0.001              | 0.00078        | 0.00123       | 0.002         | 0.00006     | 0.00137       | 0.003       | 3.4                    | 0.072           | 0.000007       | 0.0005          | 0.00016       | 0.211       | 0.000005       | 0.05              |
|                | SW22A     | 7.71     | 11.4              | 490          | 182      | 0.001              | 0.00078        | 0.00143       | 0.002         | 0.000076    | 0.00162       | 0.003       | 5.8                    | 0.091           | 0.000008       | 0.0005          | 0.00046       | 0.218       | 0.000005       | 0.05              |
|                | SW03      | 7.61     | 10.81             | 432          | 160      | 0.001              | 0.00081        | 0.00187       | 0.002         | 0.00013     | 0.00166       | 0.003       | 8.6                    | 0.175           | 0.000011       | 0.00054         | 0.00046       | 0.323       | 0.000005       | 0.05              |
|                | SW23      | 7.49     | 10.54             | 295          | 123      | 0.001              | 0.00088        | 0.0015        | 0.002         | 0.0002      | 0.00167       | 0.003       | 9                      | 0.279           | 0.000013       | 0.0007          | 0.00041       | 0.454       | 0.000005       | 0.05              |
|                | SW24      | 7.51     | 10.48             | 409          | 154      | 0.001              | 0.00085        | 0.0016        | 0.002         | 0.000191    | 0.00172       | 0.003       | 10.2                   | 0.248           | 0.000010       | 0.0006          | 0.00055       | 0.431       | 0.000005       | 0.05              |
|                | SW15      | 7.68     | 10.43             | 272          | 120      | 0.001              | 0.00111        | 0.00267       | 0.002         | 0.00074     | 0.00301       | 0.0061      | 53.4                   | 1.01            | 0.0000164      | 0.00223         | 0.00092       | 1.420       | 0.000005       | 0.1               |
| Clark Creek    | SW28A     | 7.68     | 12.15             | 160          | 81.2     | 0.001              | 0.00068        | 0.00074       | 0.002         | 0.000063    | 0.00082       | 0.003       | 3                      | 0.0516          | 0.000005       | 0.0005          | 0.0001        | 0.173       | 0.000005       | 0.05              |
| West Creek     | SW02      | 7.16     | 11.82             | 106          | 59.3     | 0.001              | 0.00062        | 0.00061       | 0.002         | 0.000073    | 0.00064       | 0.003       | 4.6                    | 0.0833          | 0.000005       | 0.0005          | 0.0001        | 0.187       | 0.000005       | 0.05              |
|                | SW25      | 7.94     | 11.84             | 256          | 145      | 0.001              | 0.00071        | 0.00116       | 0.002         | 0.000105    | 0.001         | 0.0038      | 4.6                    | 0.1070          | 0.000005       | 0.0005          | 0.00012       | 0.165       | 0.000005       | 0.05              |
|                | SW26      | 7.96     | 11.64             | 263          | 122      | 0.001              | 0.00078        | 0.00146       | 0.002         | 0.000128    | 0.00122       | 0.0062      | 7.2                    | 0.1430          | 0.0000063      | 0.0005          | 0.00014       | 0.217       | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 7.71     | 10.93             | 286          | 133      | 0.001              | 0.0007         | 0.00149       | 0.002         | 0.000084    | 0.00122       | 0.0065      | 3                      | 0.1020          | 0.000008       | 0.0005          | 0.00013       | 0.162       | 0.000005       | 0.05              |
| McCallum Creek | SW29A     | 7.29     | 10.24             | 149          | 81.1     | 0.001              | 0.0005         | 0.00072       | 0.002         | 0.00005     | 0.00088       | 0.003       | 3                      | 0.0248          | 0.000005       | 0.0005          | 0.0001        | 0.105       | 0.000005       | 0.05              |
| Rainy River    | SW16      | 7.24     | 10.76             | 116          | 52.7     | 0.001              | 0.00076        | 0.00208       | 0.002         | 0.000414    | 0.00204       | 0.009       | 24.6                   | 0.585           | 0.0000225      | 0.00142         | 0.00041       | 0.856       | 0.0000055      | 0.05              |
|                | SW17      | 7.63     | 10.78             | 147          | 67       | 0.001              | 0.00141        | 0.00439       | 0.002         | 0.00188     | 0.00561       | 0.014       | 102                    | 2.2800          | 0.000066       | 0.0052          | 0.00166       | 3.190       | 0.0000073      | 0.115             |

Table C6: June 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.22     | 19.35             | 228          | 114      | 0.001              | 0.00127        | 0.0009        | 0.002         | 0.000086    | 0.00166       | 0.003       | 3.2                    | 0.108           | 0.000005       | 0.0005          | 0.00029       | 0.541       | 0.000005       | 0.062             |
|                | SW10      | 7.5      | 19.95             | 196          | 104      | 0.001              | 0.00142        | 0.00132       | 0.002         | 0.000246    | 0.002         | 0.003       | 11                     | 0.382           | 0.000011       | 0.00098         | 0.00034       | 0.733       | 0.000005       | 0.058             |
|                | SW21A     | 7.49     | 19.16             | 446          | 213      | 0.001              | 0.00156        | 0.00112       | 0.002         | 0.000087    | 0.00154       | 0.003       | 7                      | 0.093           | 0.000008       | 0.0005          | 0.00037       | 0.500       | 0.000005       | 0.09              |
|                | SW22A     | 7.41     | 18.08             | 423          | 205      | 0.001              | 0.00163        | 0.00172       | 0.002         | 0.000179    | 0.00165       | 0.004       | 7.4                    | 0.223           | 0.000012       | 0.00052         | 0.00037       | 0.557       | 0.000005       | 0.08              |
|                | SW03      | 7.5      | 19.05             | 340          | 172      | 0.001              | 0.00148        | 0.00239       | 0.002         | 0.000182    | 0.00196       | 0.003       | 10.1                   | 0.245           | 0.000012       | 0.00061         | 0.00037       | 0.590       | 0.000005       | 0.062             |
|                | SW23      | 7.3      | 17.99             | 236          | 127      | 0.001              | 0.00152        | 0.00167       | 0.002         | 0.000321    | 0.00208       | 0.0033      | 11.8                   | 0.450           | 0.000016       | 0.0011          | 0.00048       | 0.906       | 0.000005       | 0.058             |
|                | SW24      | 7.35     | 17.97             | 233          | 130      | 0.001              | 0.00154        | 0.00176       | 0.002         | 0.00035     | 0.00214       | 0.0034      | 11.2                   | 0.484           | 0.000017       | 0.0011          | 0.00053       | 0.958       | 0.000005       | 0.065             |
|                | SW15      | 7.36     | 17.4              | 174          | 101      | 0.001              | 0.00147        | 0.00205       | 0.002         | 0.000493    | 0.00228       | 0.006       | 13.4                   | 0.644           | 0.0000145      | 0.00137         | 0.00052       | 1.070       | 0.000005       | 0.1               |
| Clark Creek    | SW28A     | 7.49     | 21.53             | 146          | 86.8     | 0.001              | 0.00111        | 0.00101       | 0.002         | 0.000174    | 0.00135       | 0.003       | 6.6                    | 0.254           | 0.0000115      | 0.00065         | 0.00029       | 0.509       | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.79     | 17.85             | 114          | 69.5     | 0.001              | 0.00095        | 0.00082       | 0.002         | 0.00009     | 0.00073       | 0.003       | 3                      | 0.0818          | 0.0000052      | 0.0005          | 0.00014       | 0.358       | 0.000005       | 0.05              |
|                | SW25      | 7.41     | 18.31             | 241          | 127      | 0.001              | 0.00124        | 0.0015        | 0.002         | 0.00018     | 0.00134       | 0.0067      | 3                      | 0.1950          | 0.000007       | 0.0006          | 0.00021       | 0.440       | 0.000005       | 0.05              |
|                | SW26      | 7.58     | 18.2              | 270          | 142      | 0.001              | 0.00143        | 0.00151       | 0.002         | 0.000169    | 0.00181       | 0.0087      | 3                      | 0.2100          | 0.0000062      | 0.0013          | 0.00021       | 0.481       | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 7.44     | 17.15             | 303          | 156      | 0.001              | 0.00139        | 0.00149       | 0.002         | 0.00014     | 0.00166       | 0.0061      | 3                      | 0.2120          | 0.000009       | 0.0005          | 0.00025       | 0.474       | 0.000005       | 0.05              |
| McCallum Creek | SW29A     | 6.91     | 16.96             | 189          | 107      | 0.001              | 0.00108        | 0.00052       | 0.002         | 0.00005     | 0.00134       | 0.003       | 3                      | 0.0246          | 0.000005       | 0.0005          | 0.00033       | 0.382       | 0.000005       | 0.05              |
| Rainy River    | SW16      | 7.19     | 14.63             | 66.7         | 29.2     | 0.001              | 0.0005         | 0.00116       | 0.002         | 0.000137    | 0.00082       | 0.003       | 4.6                    | 0.147           | 0.000005       | 0.0005          | 0.0001        | 0.238       | 0.000005       | 0.05              |
|                | SW17      | 6.9      | 15.94             | 77.8         | 36.5     | 0.001              | 0.00064        | 0.0012        | 0.002         | 0.000145    | 0.00098       | 0.003       | 4.2                    | 0.1900          | 0.000006       | 0.0006          | 0.00014       | 0.308       | 0.000005       | 0.05              |



Table C7: July 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.08     | 20.53             | 240          | 120      | 0.001              | 0.00165        | 0.00058       | 0.002         | 7.3E-05     | 0.00171       | 0.003       | 3                      | 0.075           | 0.000006       | 0.0005          | 0.00028       | 0.64        | 0.000005       | 0.063             |
|                | SW10      | 7.35     | 21.91             | 206          | 113      | 0.001              | 0.00186        | 0.00113       | 0.002         | 0.00024     | 0.00209       | 0.003       | 6.4                    | 0.318           | 0.000012       | 0.0008          | 0.00031       | 0.81        | 0.000005       | 0.09              |
|                | SW21A     | 7.18     | 22.96             | 248          | 132      | 0.001              | 0.00206        | 0.0005        | 0.002         | 0.00005     | 0.0017        | 0.003       | 3                      | 0.035           | 0.000005       | 0.0005          | 0.00025       | 0.64        | 0.000005       | 0.15              |
|                | SW22A     | 7.44     | 23.78             | 259          | 140      | 0.001              | 0.00207        | 0.0005        | 0.002         | 5.8E-05     | 0.00167       | 0.003       | 3                      | 0.052           | 0.000005       | 0.0005          | 0.00022       | 0.55        | 0.000005       | 0.13              |
|                | SW03      | 7.37     | 22.94             | 229          | 127      | 0.001              | 0.00194        | 0.00192       | 0.002         | 0.00021     | 0.00231       | 0.003       | 4.6                    | 0.254           | 0.000015       | 0.00066         | 0.00037       | 0.81        | 0.000005       | 0.111             |
|                | SW23      | 7.25     | 21.78             | 179          | 108      | 0.001              | 0.00205        | 0.0012        | 0.002         | 0.00028     | 0.00209       | 0.0032      | 7.6                    | 0.344           | 0.000017       | 0.0009          | 0.00046       | 1.02        | 0.000005       | 0.075             |
|                | SW24      | 7.27     | 21.99             | 178          | 106      | 0.001              | 0.00204        | 0.00124       | 0.002         | 0.00032     | 0.00211       | 0.0033      | 10                     | 0.376           | 0.000017       | 0.0009          | 0.00049       | 1.05        | 0.000005       | 0.08              |
|                | SW15      | 7.29     | 22.21             | 167          | 99.1     | 0.001              | 0.00173        | 0.00121       | 0.002         | 0.00015     | 0.00168       | 0.003       | 5.4                    | 0.0914          | 0.0000146      | 0.0005          | 0.0002        | 0.525       | 0.000005       | 0.056             |
| ark Creek      | SW28A     | 7.43     | 22.19             | 154          | 94.6     | 0.001              | 0.00131        | 0.0005        | 0.002         | 0.00005     | 0.00105       | 0.003       | 3                      | 0.0646          | 0.000005       | 0.0005          | 0.00014       | 0.34        | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.97     | 20.58             | 125          | 76.4     | 0.001              | 0.00151        | 0.0005        | 0.002         | 9.4E-05     | 0.00071       | 0.003       | 3                      | 0.0463          | 0.000005       | 0.0005          | 0.0003        | 0.65        | 0.000005       | 0.05              |
|                | SW25      | 7.242    | 19.91             | 272          | 151      | 0.001              | 0.0017         | 0.00116       | 0.002         | 7.5E-05     | 0.00173       | 0.0086      | 3                      | 0.0897          | 0.000005       | 0.0005          | 0.00016       | 0.34        | 0.000005       | 0.05              |
|                | SW26      | 7.61     | 20.27             | 298          | 162      | 0.001              | 0.00174        | 0.00127       | 0.002         | 8.8E-05     | 0.00157       | 0.0057      | 3                      | 0.1290          | 0.000005       | 0.0005          | 0.00016       | 0.34        | 0.000005       | 0.05              |
| slo Creek      | SW27      | 6.99     | 18.7              | 329          | 181      | 0.001              | 0.00169        | 0.0011        | 0.002         | 6.4E-05     | 0.00165       | 0.0035      | 3                      | 0.0925          | 0.000005       | 0.0005          | 0.0002        | 0.32        | 0.000005       | 0.05              |
| allum Creek    | SW29A     | 7.02     | 22.91             | 196          | 116      | 0.001              | 0.00137        | 0.0005        | 0.002         | 0.00005     | 0.00136       | 0.003       | 3                      | 0.0210          | 0.000005       | 0.0005          | 0.00029       | 0.54        | 0.000005       | 0.05              |
| Rainy River    | SW16      | 7.06     | 20.45             | 66.7         | 30.1     | 0.001              | 0.00059        | 0.00153       | 0.002         | 0.00013     | 0.00092       | 0.003       | 3                      | 0.148           | 0.0000104      | 0.00052         | 0.00012       | 0.301       | 0.000005       | 0.05              |
|                | SW17      | 7.15     | 21                | 76.8         | 37.4     | 0.001              | 0.00078        | 0.00142       | 0.002         | 0.00013     | 0.00101       | 0.003       | 3.8                    | 0.1510          | 0.000007       | 0.0005          | 0.00013       | 0.37        | 0.000005       | 0.05              |

Table C8: August 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 6.99     | 18.1              | 282          | 135      | 0.001              | 0.00152        | 0.0005        | 0.002         | 0.000081    | 0.00156       | 0.003       | 3.8                    | 0.090           | 0.000005       | 0.0005          | 0.00032       | 0.664       | 0.00005        | 0.06              |
|                | SW10      | 7.34     | 18.7              | 264          | 134      | 0.001              | 0.00173        | 0.00084       | 0.002         | 0.000205    | 0.00205       | 0.003       | 5                      | 0.247           | 0.000006       | 0.00058         | 0.00028       | 0.732       | 0.00005        | 0.066             |
|                | SW21A     | 7.13     | 18.9              | 296          | 148      | 0.001              | 0.00248        | 0.0005        | 0.002         | 0.00005     | 0.00158       | 0.003       | 4.5                    | 0.011           | 0.000007       | 0.0005          | 0.00094       | 0.843       | 0.00005        | 0.125             |
|                | SW22A     | 7.11     | 18.6              | 311          | 167      | 0.001              | 0.00185        | 0.0005        | 0.002         | 0.00005     | 0.00144       | 0.003       | 3                      | 0.029           | 0.000005       | 0.0005          | 0.00032       | 0.323       | 0.00005        | 0.074             |
|                | SW03      | 7.32     | 19.7              | 283          | 157      | 0.001              | 0.00237        | 0.00127       | 0.002         | 0.000128    | 0.00232       | 0.003       | 4.7                    | 0.144           | 0.000011       | 0.0005          | 0.00056       | 0.69        | 0.00005        | 0.096             |
|                | SW23      | 7.32     | 18.5              | 230          | 134      | 0.001              | 0.00282        | 0.00124       | 0.002         | 0.000355    | 0.00254       | 0.0037      | 10.1                   | 0.367           | 0.000018       | 0.00128         | 0.0007        | 1.64        | 0.00005        | 0.094             |
|                | SW24      | 7.3      | 18.9              | 231          | 122      | 0.001              | 0.00286        | 0.00106       | 0.002         | 0.00032     | 0.00237       | 0.003       | 7.9                    | 0.275           | 0.000015       | 0.00079         | 0.0006        | 1.56        | 0.00005        | 0.098             |
|                | SW15      | 7.31     | 18.7              | 170          | 100      | 0.001              | 0.00239        | 0.0013        | 0.002         | 0.000414    | 0.00211       | 0.0045      | 6.3                    | 0.343           | 0.0000246      | 0.00079         | 0.00043       | 1.2         | 0.00005        | 0.075             |
| Clark Creek    | SW28A     | 7.29     | 19.9              | 161          | 94.7     | 0.001              | 0.00149        | 0.0005        | 0.002         | 0.00005     | 0.00102       | 0.003       | 3                      | 0.0406          | 0.000005       | 0.0005          | 0.0002        | 0.381       | 0.00005        | 0.05              |
| West Creek     | SW02      | 6.75     | 19.9              | 161          | 93.2     | 0.001              | 0.00198        | 0.0005        | 0.002         | 0.00011     | 0.00073       | 0.0031      | 3                      | 0.0453          | 0.000005       | 0.0005          | 0.00067       | 1.11        | 0.00005        | 0.05              |
|                | SW25      | 7.02     | 17.9              | 281          | 148      | 0.001              | 0.00145        | 0.00109       | 0.002         | 0.0001      | 0.00128       | 0.0071      | 3.1                    | 0.1170          | 0.000005       | 0.0005          | 0.00015       | 0.35        | 0.00005        | 0.05              |
|                | SW26      | 7.56     | 17.2              | 333          | 172      | 0.001              | 0.00178        | 0.00111       | 0.002         | 0.000085    | 0.00148       | 0.0053      | 3.5                    | 0.1380          | 0.000005       | 0.0005          | 0.00016       | 0.358       | 0.00005        | 0.05              |
| Loslo Creek    | SW27      | 7.02     | 16.4              | 371          | 197      | 0.001              | 0.00177        | 0.0008        | 0.002         | 0.00005     | 0.00175       | 0.0034      | 3                      | 0.0662          | 0.000008       | 0.0005          | 0.0002        | 0.275       | 0.00005        | 0.05              |
| McCallum Creek | SW29A     | 6.89     | 17.2              | 217          | 124      | 0.001              | 0.00142        | 0.0005        | 0.002         | 0.00005     | 0.00142       | 0.003       | 3                      | 0.0314          | 0.000005       | 0.0005          | 0.00029       | 0.589       | 0.00005        | 0.05              |
| Rainy River    | SW16      | 7.22     | 22.2              | 58.9         | 25.7     | 0.001              | 0.00042        | 0.00096       | 0.002         | 0.00005     | 0.0006        | 0.003       | 7.7                    | 0.0179          | 0.000005       | 0.0005          | 0.0001        | 0.074       | 0.000005       | 0.05              |
|                | SW17      | 7.28     | 22.6              | 65.9         | 29.2     | 0.001              | 0.0006         | 0.00147       | 0.002         | 0.000218    | 0.00103       | 0.005       | 14.9                   | 0.2250          | 0.000014       | 0.00072         | 0.00021       | 0.383       | 0.000005       | 0.05              |

Table C9: September 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.12     | 15.58             | 309          | 152      | 0.001              | 0.00129        | 0.0005        | 0.002         | 0.00005     | 0.00134       | 0.003       | 3                      | 0.059           | 0.000005       | 0.0005          | 0.00024       | 0.398       | 0.000005       | 0.05              |
|                | SW10      | 7.54     | 19.33             | 315          | 162      | 0.001              | 0.00173        | 0.00092       | 0.002         | 0.000126    | 0.00197       | 0.003       | 5.5                    | 0.129           | 0.000007       | 0.0005          | 0.00025       | 0.446       | 0.000005       | 0.08              |
|                | SW21A     | 7.22     | 16.67             | 315          | 155      | 0.001              | 0.00161        | 0.0005        | 0.002         | 0.00005     | 0.00127       | 0.003       | 3                      | 0.0261          | 0.000005       | 0.0005          | 0.00037       | 0.461       | 0.000005       | 0.09              |
|                | SW22A     | 7.08     | 17.7              | 321          | 162      | 0.001              | 0.00174        | 0.0005        | 0.002         | 0.00005     | 0.00132       | 0.003       | 3                      | 0.0454          | 0.000005       | 0.0005          | 0.00029       | 0.363       | 0.000005       | 0.107             |
|                | SW03      | 7.32     | 17.61             | 317          | 168      | 0.001              | 0.00214        | 0.00088       | 0.002         | 0.000102    | 0.00202       | 0.003       | 9.3                    | 0.185           | 0.000008       | 0.0005          | 0.00035       | 0.472       | 0.000005       | 0.089             |
|                | SW23      | 7.34     | 17.03             | 250          | 143      | 0.001              | 0.0028         | 0.00257       | 0.002         | 0.00053     | 0.00286       | 0.006       | 14.7                   | 0.584           | 0.000012       | 0.0013          | 0.00062       | 1.44        | 0.000005       | 0.102             |
|                | SW24      | 7.39     | 18                | 247          | 146      | 0.001              | 0.00277        | 0.00254       | 0.002         | 0.00064     | 0.00311       | 0.006       | 15.5                   | 0.711           | 0.000016       | 0.00189         | 0.00069       | 1.67        | 0.000005       | 0.115             |
| Clark Creek    | SW15      | 7.79     | 19.67             | 236          | 134      | 0.001              | 0.00273        | 0.00342       | 0.002         | 0.000932    | 0.00358       | 0.006       | 29.9                   | 0.925           | 0.000034       | 0.00188         | 0.00091       | 1.74        | 0.000005       | 0.165             |
| West Creek     | SW28A     | 7.6      | 15.43             | 294          | 169      | 0.001              | 0.00106        | 0.00086       | 0.002         | 0.00005     | 0.00132       | 0.0030      | 6.1                    | 0.0739          | 0.000005       | 0.0005          | 0.00024       | 0.247       | 0.000005       | 0.05              |
|                | SW02      | 6.79     | 16.9              | 194          | 111      | 0.001              | 0.00132        | 0.00054       | 0.002         | 0.000155    | 0.00072       | 0.0031      | 5.4                    | 0.0608          | 0.000007       | 0.0005          | 0.00039       | 0.851       | 0.000005       | 0.05              |
|                | SW25      | 7.09     | 17.6              | 347          | 176      | 0.001              | 0.00119        | 0.00159       | 0.002         | 0.000097    | 0.00135       | 0.0061      | 3                      | 0.163           | 0.000005       | 0.0005          | 0.00016       | 0.266       | 0.000005       | 0.05              |
| West Creek     | SW26      | 7.42     | 17.5              | 466          | 241      | 0.001              | 0.00158        | 0.00228       | 0.002         | 0.000067    | 0.00142       | 0.0098      | 3                      | 0.133           | 0.000012       | 0.0005          | 0.00017       | 0.281       | 0.000005       | 0.05              |
|                | SW27      | 7.08     | 16.1              | 417          | 212      | 0.001              | 0.0012         | 0.00055       | 0.002         | 0.00005     | 0.00115       | 0.003       | 3                      | 0.0142          | 0.000005       | 0.0005          | 0.0001        | 0.109       | 0.000005       | 0.058             |
| McCallum Creek | SW29A     | 7.05     | 14.97             | 256          | 145      | 0.001              | 0.00121        | 0.0005        | 0.002         | 0.000096    | 0.00153       | 0.003       | 8.1                    | 0.143           | 0.000007       | 0.0005          | 0.00042       | 0.551       | 0.000005       | 0.05              |
| Rainy River    | SW16      | 7.51     | 19.48             | 75.3         | 29.9     | 0.001              | 0.00061        | 0.00138       | 0.002         | 0.000156    | 0.00098       | 0.003       | 11.9                   | 0.208           | 0.0000099      | 0.00063         | 0.00017       | 0.304       | 0.000005       | 0.05              |
|                | SW17      | 7.48     | 20.13             | 93.4         | 41.7     | 0.001              | 0.00086        | 0.0015        | 0.002         | 0.00021     | 0.00095       | 0.003       | 7.1                    | 0.166           | 0.000011       | 0.00052         | 0.00018       | 0.371       | 0.000005       | 0.05              |

Table C10: October 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.1      | 11.93             | 299          | 142      | 0.001              | 0.00121        | 0.0005        | 0.002         | 0.00005     | 0.00131       | 0.003       | 3                      | 0.0755          | 0.000005       | 0.0005          | 0.00026       | 0.508       | 0.000005       | 0.061             |
|                | SW10      | 7.75     | 13.26             | 266          | 136      | 0.001              | 0.00169        | 0.001         | 0.002         | 0.00011     | 0.00172       | 0.006       | 3                      | 0.147           | 0.000010       | 0.001           | 0.00024       | 0.695       | 0.000005       | 0.1               |
|                | SW21A     | 7.51     | 11.94             | 310          | 157      | 0.001              | 0.00162        | 0.00059       | 0.002         | 0.00016     | 0.00189       | 0.003       | 9                      | 0.249           | 0.0000083      | 0.00066         | 0.00072       | 0.847       | 0.000005       | 0.096             |
|                | SW22A     | 6.89     | 12.9              | 315          | 169      | 0.001              | 0.00156        | 0.0005        | 0.002         | 0.00006     | 0.00157       | 0.003       | 3                      | 0.093           | 0.000005       | 0.0005          | 0.00033       | 0.41        | 0.000005       | 0.098             |
|                | SW03      | 7.16     | 12.9              | 316          | 172      | 0.001              | 0.00172        | 0.00161       | 0.002         | 0.00016     | 0.0025        | 0.003       | 6.6                    | 0.232           | 0.0000121      | 0.00058         | 0.00037       | 0.518       | 0.000005       | 0.082             |
|                | SW23      | 7.08     | 12.7              | 271          | 154      | 0.001              | 0.00223        | 0.0019        | 0.002         | 0.00051     | 0.00275       | 0.006       | 8.8                    | 0.635           | 0.0000181      | 0.00135         | 0.00064       | 1.39        | 0.000005       | 0.1               |
|                | SW24      | 7.12     | 13.4              | 284          | 156      | 0.001              | 0.00227        | 0.00196       | 0.002         | 0.00042     | 0.00252       | 0.006       | 7.6                    | 0.526           | 0.0000182      | 0.00112         | 0.00053       | 1.32        | 0.000005       | 0.1               |
| Clark Creek    | SW15      | 7.25     | 14.2              | 197          | 109      | 0.001              | 0.00212        | 0.0022        | 0.002         | 0.00045     | 0.00212       | 0.006       | 7.2                    | 0.426           | 0.0000221      | 0.001           | 0.00046       | 1.07        | 0.000005       | 0.1               |
| West Creek     | SW28A     | 7.44     | 11.99             | 197          | 116      | 0.001              | 0.00108        | 0.00061       | 0.002         | 8.1E-05     | 0.00102       | 0.003       | 6.6                    | 0.114           | 0.000005       | 0.0005          | 0.00025       | 0.374       | 0.000005       | 0.05              |
|                | SW02      | 7.31     | 11.28             | 200          | 115      | 0.001              | 0.00097        | 0.0005        | 0.002         | 6.3E-05     | 0.00063       | 0.003       | 3                      | 0.033           | 0.0000093      | 0.0005          | 0.0002        | 0.506       | 0.000005       | 0.05              |
|                | SW25      |          |                   |              |          |                    |                |               |               |             |               |             |                        |                 |                |                 |               |             |                |                   |
| West Creek     | SW26      | 7.75     | 10.63             | 529          | 290      | 0.001              | 0.00142        | 0.00113       | 0.002         | 0.00005     | 0.00136       | 0.003       | 3                      | 0.0632          | 0.000005       | 0.0005          | 0.00012       | 0.16        | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 7.22     | 12.76             | 444          | 236      | 0.001              | 0.00128        | 0.0005        | 0.002         | 0.00005     | 0.00108       | 0.0134      | 3                      | 0.0541          | 0.0000238      | 0.0005          | 0.00022       | 0.245       | 0.000005       | 0.073             |
| McCallum Creek | SW29A     | 6.68     | 12.4              | 264          | 156      | 0.001              | 0.00215        | 0.0005        | 0.002         | 0.00005     | 0.00108       | 0.007       | 9.2                    | 0.009           | 0.0000131      | 0.0005          | 0.00143       | 0.86        | 0.000005       | 0.108             |
| Rainy River    | SW16      | 7.22     | 16.2              | 70.4         | 28.3     | 0.001              | 0.00061        | 0.00136       | 0.002         | 0.00021     | 0.00104       | 0.005       | 12.8                   | 0.251           | 0.000017       | 0.0007          | 0.00018       | 0.417       | 0.000005       | 0.05              |
|                | SW17      | 7.39     | 17                | 78.9         | 34.1     | 0.001              | 0.00063        | 0.00127       | 0.002         | 0.00013     | 0.00088       | 0.003       | 4.6                    | 0.14            | 0.0000141      | 0.00053         | 0.00011       | 0.223       | 0.000005       | 0.05              |



Table C11: November 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.1      | 5.53              | 342          | 147      | 0.001              | 0.00069        | 0.0005        | 0.002         | 0.00005     | 0.00109       | 0.003       | 3                      | 0.0607          | 0.000005       | 0.0005          | 0.00015       | 0.268       | 0.000005       | 0.05              |
|                | SW10      | 7.56     | 5.31              | 305          | 141      | 0.001              | 0.00086        | 0.00055       | 0.002         | 0.000058    | 0.00129       | 0.003       | 3                      | 0.105           | 0.000005       | 0.0005          | 0.00015       | 0.331       | 0.000005       | 0.05              |
|                | SW21A     | 7.31     | 6.02              | 315          | 140      | 0.001              | 0.00078        | 0.0005        | 0.002         | 0.000086    | 0.00123       | 0.003       | 4.8                    | 0.154           | 0.000005       | 0.0005          | 0.00028       | 0.349       | 0.000005       | 0.05              |
|                | SW22A     | 7.29     | 5.75              | 328          | 153      | 0.001              | 0.00079        | 0.0005        | 0.002         | 0.000086    | 0.00126       | 0.003       | 4.2                    | 0.16            | 0.000005       | 0.0005          | 0.00026       | 0.34        | 0.000005       | 0.05              |
|                | SW03      | 7.11     | 5.85              | 334          | 157      | 0.001              | 0.00098        | 0.00075       | 0.002         | 0.000165    | 0.00162       | 0.003       | 7                      | 0.26            | 0.0000096      | 0.00062         | 0.00029       | 0.456       | 0.000005       | 0.051             |
|                | SW23      | 7.09     | 5.72              | 282          | 142      | 0.001              | 0.00111        | 0.00094       | 0.002         | 0.000222    | 0.00174       | 0.003       | 4.8                    | 0.378           | 0.0000106      | 0.00078         | 0.00032       | 0.719       | 0.000005       | 0.05              |
|                | SW24      | 7.45     | 6.54              | 846          | 297      | 0.001              | 0.00144        | 0.00158       | 0.002         | 0.0002      | 0.00382       | 0.0058      | 9.4                    | 0.346           | 0.0000155      | 0.00072         | 0.00091       | 0.587       | 0.000005       | 0.05              |
|                | SW15      | 7.04     | 5.79              | 213          | 121      | 0.001              | 0.00129        | 0.00136       | 0.002         | 0.000382    | 0.00174       | 0.0047      | 6.6                    | 0.518           | 1.91E-05       | 0.00116         | 0.00037       | 0.979       | 0.000005       | 0.05              |
| Clark Creek    | SW28A     | 7.7      | 5.52              | 236          | 122      | 0.001              | 0.00093        | 0.0007        | 0.002         | 0.000141    | 0.00094       | 0.003       | 5.2                    | 0.149           | 7.8E-06        | 0.0005          | 0.0004        | 0.434       | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.82     | 5.36              | 182          | 99       | 0.001              | 0.00074        | 0.0005        | 0.002         | 0.00005     | 0.0005        | 0.003       | 3                      | 0.0406          | 0.000005       | 0.0005          | 0.00012       | 0.253       | 0.000005       | 0.05              |
|                | SW25      | 7.65     | 6.2               | 394          | 194      | 0.001              | 0.00094        | 0.0013        | 0.002         | 0.000097    | 0.00151       | 0.018       | 5.4                    | 0.15            | 0.0000057      | 0.0005          | 0.00013       | 0.24        | 0.000005       | 0.05              |
|                | SW26      | 7.78     | 5.8               | 483          | 230      | 0.001              | 0.00101        | 0.00104       | 0.002         | 0.000057    | 0.0012        | 0.0046      | 3                      | 0.113           | 0.000005       | 0.0005          | 0.00012       | 0.217       | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 7.27     | 4.93              | 491          | 234      | 0.001              | 0.00089        | 0.0007        | 0.002         | 0.00005     | 0.00122       | 0.0047      | 3                      | 0.0705          | 0.000005       | 0.0005          | 0.00014       | 0.19        | 0.000005       | 0.05              |
| McCallum Creek | SW29A     | 6.67     | 6.05              | 217          | 109      | 0.001              | 0.00067        | 0.0005        | 0.002         | 0.00005     | 0.0008        | 0.003       | 3                      | 0.028           | 0.0000068      | 0.0005          | 0.00022       | 0.289       | 0.000005       | 0.05              |
| Rainy River    | SW16      | 6.5      | 7.9               | 76.6         | 31.4     | 0.001              | 0.00051        | 0.00111       | 0.002         | 0.000101    | 0.00071       | 0.003       | 5.8                    | 0.135           | 8.8E-06        | 0.0005          | 0.0001        | 0.171       | 0.000005       | 0.05              |
|                | SW17      | 6.54     | 7.29              | 95           | 39.7     | 0.001              | 0.00058        | 0.00112       | 0.002         | 0.00108     | 0.00071       | 0.003       | 7                      | 0.153           | 0.0000117      | 0.00053         | 0.0001        | 0.218       | 0.000005       | 0.05              |

Table C12: December 2024 Surface Water Quality for Selected Parameters

| Receiver       | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|----------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
|                | Unit      | pH units | °C                | µS/cm        | mg/L     | mg/L               | mg/L           | mg/L          | mg/L          | mg/L        | mg/L          | mg/L        | mg/L                   | mg/L            | mg/L           | mg/L            | mg/L          | mg/L        | mg/L           | mg/L              |
| ECA Benchmarks |           |          |                   |              |          | 0.02               | 0.01           | 0.008         | 0.005         | 0.008       | 0.025         | 0.09        |                        |                 |                |                 |               |             |                |                   |
| PWQO           |           |          |                   |              |          |                    |                |               |               |             |               |             |                        | 0.075           | 0.0001         | 0.001           | 0.0009        | 0.30        | 0.0002         |                   |
| Pinewood River | SW20      | 7.07     | 0.35              | 270          | 123      | 0.001              | 0.00072        | 0.00066       | 0.002         | 0.000072    | 0.00122       | 0.003       | 3                      | 0.145           | 0.000005       | 0.0005          | 0.00017       | 0.468       | 0.000005       | 0.05              |
|                | SW10      | 7.34     | 0.16              | 250          | 123      | 0.001              | 0.00089        | 0.00086       | 0.002         | 0.000099    | 0.00139       | 0.003       | 3.2                    | 0.202           | 0.000008       | 0.0005          | 0.00018       | 0.511       | 0.000005       | 0.05              |
|                | SW21A     | 7.05     | 0.2               | 312          | 151      | 0.001              | 0.00079        | 0.00071       | 0.002         | 0.00006     | 0.00139       | 0.003       | 3                      | 0.0964          | 0.000005       | 0.0005          | 0.00024       | 0.414       | 0.000005       | 0.05              |
|                | SW22A     | 6.92     | 0.16              | 323          | 164      | 0.001              | 0.00082        | 0.00111       | 0.002         | 0.000156    | 0.00151       | 0.0042      | 6.1                    | 0.117           | 0.000011       | 0.0005          | 0.00024       | 0.41        | 0.000005       | 0.05              |
|                | SW03      | 7.31     | 0.29              | 379          | 178      | 0.001              | 0.00092        | 0.00153       | 0.002         | 0.000121    | 0.00174       | 0.0035      | 4.5                    | 0.195           | 0.0000087      | 0.00059         | 0.00029       | 0.438       | 0.000005       | 0.05              |
|                | SW23      | 7.14     | 0.14              | 495          | 208      | 0.001              | 0.00102        | 0.0014        | 0.002         | 0.000159    | 0.0021        | 0.003       | 4.5                    | 0.205           | 0.0000098      | 0.0005          | 0.0005        | 0.514       | 0.000005       | 0.05              |
|                | SW24      | 7.27     | 0.14              | 496          | 203      | 0.001              | 0.00108        | 0.00133       | 0.002         | 0.000135    | 0.00197       | 0.003       | 4.1                    | 0.246           | 0.000008       | 0.00055         | 0.00048       | 0.509       | 0.000005       | 0.05              |
|                | SW15      | 7.4      | 0.21              | 379          | 164      | 0.001              | 0.0012         | 0.00165       | 0.002         | 0.000417    | 0.00222       | 0.006       | 13.1                   | 0.657           | 0.00002        | 0.0015          | 0.00061       | 1.08        | 0.000005       | 0.1               |
| Clark Creek    | SW28A     | 7.6      | 0.17              | 207          | 122      | 0.001              | 0.00076        | 0.0005        | 0.002         | 0.00005     | 0.00072       | 0.003       | 3                      | 0.0277          | 0.000005       | 0.0005          | 0.0001        | 0.134       | 0.000005       | 0.05              |
| West Creek     | SW02      | 6.99     | 0.66              | 130          | 73.8     | 0.001              | 0.00081        | 0.0005        | 0.002         | 0.000166    | 0.0005        | 0.003       | 4.9                    | 0.0562          | 0.000005       | 0.0005          | 0.0003        | 0.457       | 0.000005       | 0.05              |
|                | SW25      | 7.7      | 0.09              | 301          | 153      | 0.001              | 0.00093        | 0.0008        | 0.002         | 0.000157    | 0.00098       | 0.006       | 5.3                    | 0.142           | 0.000007       | 0.00052         | 0.00019       | 0.359       | 0.000005       | 0.05              |
|                | SW26      | 7.65     | 0.11              | 320          | 162      | 0.001              | 0.00103        | 0.00083       | 0.002         | 0.000112    | 0.00097       | 0.0066      | 3                      | 0.0948          | 0.000006       | 0.0005          | 0.00012       | 0.273       | 0.000005       | 0.05              |
| Loslo Creek    | SW27      | 7.47     | 0.09              | 363          | 191      | 0.001              | 0.00097        | 0.00098       | 0.002         | 0.000187    | 0.00107       | 0.0075      | 3.7                    | 0.123           | 0.00001        | 0.0005          | 0.00016       | 0.304       | 0.000005       | 0.05              |
| McCallum Creek | SW29A     | 7.1      | 0.76              | 207          | 114      | 0.001              | 0.00055        | 0.0005        | 0.002         | 0.00005     | 0.00074       | 0.003       | 3                      | 0.0287          | 0.000005       | 0.0005          | 0.00012       | 0.221       | 0.000005       | 0.05              |
| Rainy River    | SW16      | 7.61     | 0.14              | 104          | 43.3     | 0.001              | 0.00062        | 0.0013        | 0.002         | 0.000167    | 0.00097       | 0.003       | 16.3                   | 0.206           | 0.0000078      | 0.00086         | 0.00017       | 0.324       | 0.000005       | 0.05              |
|                | SW17      | 7.62     | 0.29              | 119          | 52.1     | 0.001              | 0.00072        | 0.00096       | 0.002         | 0.000113    | 0.00076       | 0.003       | 3                      | 0.149           | 0.000008       | 0.0005          | 0.00011       | 0.282       | 0.000005       | 0.05              |

**Table C13: April 2024 Discharge and Dilution Ratios**

| Date      | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m <sup>3</sup> /day) | EDL1 Daily Discharge (m <sup>3</sup> /day) | EDL2 Daily Discharge (m <sup>3</sup> /day) | EDL1/2 Target dilution ratio (100%) | EDL1+2 Dilution % (of 100%) | Sediment Pond 2 Daily Discharge (m <sup>3</sup> /day) | Sediment Pond 2 Target dilution ratio (10% or 100%) | Sediment Pond 2 Dilution % (of 10% or 100%) |
|-----------|-----------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------|-----------------------------|-------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| 1-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 2-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 3-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 4-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 5-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 6-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 7-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 8-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 9-Apr-24  | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 10-Apr-24 | -                                                                                                   | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 11-Apr-24 | 136,983                                                                                             | -                                          | -                                          | 100%                                |                             | -                                                     | 10%                                                 |                                             |
| 12-Apr-24 | 81,805                                                                                              | 14,102                                     | 20,437                                     | 100%                                | 25.21%                      | 13,630.00                                             | 10%                                                 | 9.95%                                       |
| 13-Apr-24 | 95,479                                                                                              | 24,219                                     | 21,807                                     | 100%                                | 56.26%                      | 8,180.00                                              | 10%                                                 | 10.00%                                      |
| 14-Apr-24 | 83,076                                                                                              | 23,883                                     | 21,829                                     | 100%                                | 47.88%                      | 9,548                                                 | 10%                                                 | 10.00%                                      |
| 15-Apr-24 | 66,888                                                                                              | 25,515                                     | 22,732                                     | 100%                                | 58.08%                      | 8,280                                                 | 10%                                                 | 9.97%                                       |
| 16-Apr-24 | 56,116                                                                                              | 24,391                                     | 22,749                                     | 100%                                | 70.48%                      | 6,670                                                 | 10%                                                 | 9.97%                                       |
| 17-Apr-24 | 72,146                                                                                              | 23,559                                     | 22,730                                     | 100%                                | 82.49%                      | 5,520                                                 | 10%                                                 | 9.84%                                       |
| 18-Apr-24 | 85,891                                                                                              | 23,494                                     | 22,691                                     | 100%                                | 64.02%                      | 7,200                                                 | 10%                                                 | 9.98%                                       |
| 19-Apr-24 | 90,399                                                                                              | 21,761                                     | 21,435                                     | 100%                                | 50.29%                      | 8,568                                                 | 10%                                                 | 9.98%                                       |
| 20-Apr-24 | 88,331                                                                                              | 15,146                                     | 14,892                                     | 100%                                | 33.23%                      | 9,024                                                 | 10%                                                 | 9.98%                                       |
| 21-Apr-24 | 64,361                                                                                              | 34,798                                     | 24,251                                     | 100%                                | 66.85%                      | 8,808                                                 | 10%                                                 | 9.97%                                       |
| 22-Apr-24 | 67,592                                                                                              | 35,097                                     | 24,852                                     | 100%                                | 93.15%                      | 6,408                                                 | 10%                                                 | 9.96%                                       |
| 23-Apr-24 | 72,576                                                                                              | 35,123                                     | 24,902                                     | 100%                                | 88.81%                      | 6,720                                                 | 10%                                                 | 9.94%                                       |
| 24-Apr-24 | 87,715                                                                                              | 35,107                                     | 24,899                                     | 100%                                | 82.68%                      | 7,200                                                 | 10%                                                 | 9.92%                                       |
| 25-Apr-24 | 73,868                                                                                              | 35,134                                     | 24,921                                     | 100%                                | 68.47%                      | 7,248                                                 | 10%                                                 | 8.26%                                       |
| 26-Apr-24 | 83,755                                                                                              | 35,099                                     | 24,906                                     | 100%                                | 81.23%                      | 7,248                                                 | 10%                                                 | 9.81%                                       |
| 27-Apr-24 | 107,652                                                                                             | 35,073                                     | 24,882                                     | 100%                                | 71.58%                      | 8,280                                                 | 10%                                                 | 9.89%                                       |
| 28-Apr-24 | 110,800                                                                                             | 35,110                                     | 24,880                                     | 100%                                | 55.73%                      | 10,680                                                | 10%                                                 | 9.92%                                       |
| 29-Apr-24 | 142,857                                                                                             | 35,084                                     | 24,846                                     | 100%                                | 54.09%                      | 10,920                                                | 10%                                                 | 9.86%                                       |
| 30-Apr-24 | 167,794                                                                                             | 34,238                                     | 24,510                                     | 100%                                | 41.12%                      | 12,720                                                | 10%                                                 | 8.90%                                       |

\*Previous 24-hr flow used to determine daily discharge volume

**Table C14: May 2024 Discharge and Dilution Ratios**

| Date      | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m <sup>3</sup> /day) | EDL1 Daily Discharge (m <sup>3</sup> /day) | EDL2 Daily Discharge (m <sup>3</sup> /day) | EDL1/2 Target dilution ratio (100%) | EDL1+2 Dilution % (of 100%) | Sediment Pond 2 Daily Discharge (m <sup>3</sup> /day) | Sediment Pond 2 Target dilution ratio (10% or 100%) | Sediment Pond 2 Dilution % (of 10% or 100%) |
|-----------|-----------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------|-----------------------------|-------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| 1-May-24  | 280,032                                                                                             | 33,867                                     | 24,327                                     | 100%                                | 34.68%                      | 12,600                                                | 10%                                                 | 7.51%                                       |
| 2-May-24  | 387,573                                                                                             | 33,890                                     | 24,316                                     | 100%                                | 20.79%                      | 12,576                                                | 10%                                                 | 4.49%                                       |
| 3-May-24  | 545,210                                                                                             | 5,872                                      | 23,771                                     | 100%                                | 7.65%                       | 12,576                                                | 10%                                                 | 3.24%                                       |
| 4-May-24  | 695,929                                                                                             | 516                                        | 23,676                                     | 100%                                | 4.44%                       | 12,576                                                | 10%                                                 | 2.31%                                       |
| 5-May-24  | 665,027                                                                                             | 35,473                                     | 22,463                                     | 100%                                | 8.32%                       | 12,576                                                | 10%                                                 | 1.81%                                       |
| 6-May-24  | 485,061                                                                                             | 35,578                                     | 22,535                                     | 100%                                | 8.74%                       | 12,576                                                | 10%                                                 | 1.89%                                       |
| 7-May-24  | 387,875                                                                                             | 35,577                                     | 22,543                                     | 100%                                | 11.98%                      | 12,576                                                | 10%                                                 | 2.59%                                       |
| 8-May-24  | 360,432                                                                                             | 35,677                                     | 22,572                                     | 100%                                | 15.02%                      | 12,120                                                | 10%                                                 | 3.12%                                       |
| 9-May-24  | 319,139                                                                                             | 35,717                                     | 22,584                                     | 100%                                | 16.18%                      | 12,120                                                | 10%                                                 | 3.36%                                       |
| 10-May-24 | 261,353                                                                                             | 35,707                                     | 22,566                                     | 100%                                | 18.26%                      | 12,120                                                | 10%                                                 | 3.80%                                       |
| 11-May-24 | 236,110                                                                                             | 35,741                                     | 22,583                                     | 100%                                | 22.32%                      | 8,555                                                 | 10%                                                 | 3.27%                                       |
| 12-May-24 | 211,719                                                                                             | 35,788                                     | 22,593                                     | 100%                                | 24.73%                      | 8,400                                                 | 10%                                                 | 3.56%                                       |
| 13-May-24 | 176,761                                                                                             | 35,801                                     | 22,594                                     | 100%                                | 27.58%                      | 8,400                                                 | 10%                                                 | 3.97%                                       |
| 14-May-24 | 141,881                                                                                             | 35,571                                     | 22,628                                     | 100%                                | 32.92%                      | 7,800                                                 | 10%                                                 | 4.41%                                       |
| 15-May-24 | 134,789                                                                                             | 35,782                                     | 22,624                                     | 100%                                | 41.16%                      | 7,440                                                 | 10%                                                 | 5.24%                                       |
| 16-May-24 | 145,210                                                                                             | 35,743                                     | 22,605                                     | 100%                                | 43.29%                      | 7,440                                                 | 10%                                                 | 5.52%                                       |
| 17-May-24 | 137,588                                                                                             | 35,780                                     | 22,446                                     | 100%                                | 40.10%                      | 7,440                                                 | 10%                                                 | 5.12%                                       |
| 18-May-24 | 145,495                                                                                             | 35,775                                     | 22,663                                     | 100%                                | 42.47%                      | 7,200                                                 | 10%                                                 | 5.23%                                       |
| 19-May-24 | 119,743                                                                                             | 33,031                                     | 22,572                                     | 100%                                | 38.22%                      | 7,440                                                 | 10%                                                 | 5.11%                                       |
| 20-May-24 | 101,634                                                                                             | 34,820                                     | 22,626                                     | 100%                                | 47.97%                      | 7,440                                                 | 10%                                                 | 6.21%                                       |
| 21-May-24 | 128,428                                                                                             | 35,782                                     | 22,620                                     | 100%                                | 57.46%                      | 6,720                                                 | 10%                                                 | 6.61%                                       |
| 22-May-24 | 475,333                                                                                             | 35,586                                     | 22,522                                     | 100%                                | 45.25%                      | 11,496                                                | 10%                                                 | 8.95%                                       |
| 23-May-24 | 1,023,862                                                                                           | 35,561                                     | 22,540                                     | 100%                                | 12.22%                      | 11,640                                                | 10%                                                 | 2.45%                                       |
| 24-May-24 | 1,020,289                                                                                           | 35,498                                     | 22,523                                     | 100%                                | 5.67%                       | 21,480                                                | 10%                                                 | 2.10%                                       |
| 25-May-24 | 880,027                                                                                             | 30,073                                     | 22,800                                     | 100%                                | 5.18%                       | 21,360                                                | 10%                                                 | 2.09%                                       |
| 26-May-24 | 741,309                                                                                             | 35,231                                     | 22,538                                     | 100%                                | 6.56%                       | 19,860                                                | 10%                                                 | 2.26%                                       |
| 27-May-24 | 558,277                                                                                             | 35,712                                     | 22,567                                     | 100%                                | 7.86%                       | 19,440                                                | 10%                                                 | 2.62%                                       |
| 28-May-24 | 406,427                                                                                             | 35,768                                     | 22,592                                     | 100%                                | 10.45%                      | 19,200                                                | 10%                                                 | 3.44%                                       |
| 29-May-24 | 313,864                                                                                             | 8,850                                      | 7,480                                      | 100%                                | 4.02%                       | 16,440                                                | 10%                                                 | 4.05%                                       |
| 30-May-24 | 231,669                                                                                             | -                                          | -                                          | 100%                                | 0.00%                       | 16,440                                                | 10%                                                 | 5.24%                                       |
| 31-May-24 | 220,113                                                                                             | -                                          | -                                          | 100%                                | 0.00%                       | 16,440                                                | 10%                                                 | 7.10%                                       |

\*Previous 24-hr flow used to determine daily discharge volume

**Table C15: June 2024 Discharge and Dilution Ratios**

| Date      | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m³/day) | EDL1 Daily Discharge (m³/day) | EDL2 Daily Discharge (m³/day) | EDL1/2 Target dilution ratio (100%) | EDL1+2 Dilution % (of 100%) | Sediment Pond 2 Daily Discharge (m³/day) | Sediment Pond 2 Target dilution ratio (10% or 100%) | Sediment Pond 2 Dilution % (of 10% or 100%) |
|-----------|----------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|-----------------------------|------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| 31-May-24 | 220,113                                                                                |                               |                               |                                     |                             |                                          |                                                     |                                             |
| 1-Jun-24  | 177,403                                                                                | -                             | -                             | 100%                                | 0.00%                       | 14,400                                   | 10%                                                 | 6.54%                                       |
| 2-Jun-24  | 140,215                                                                                | -                             | -                             | 100%                                | 0.00%                       | 14,400                                   | 10%                                                 | 8.12%                                       |
| 3-Jun-24  | 115,293                                                                                | -                             | -                             | 100%                                | 0.00%                       | 13,920                                   | 10%                                                 | 9.93%                                       |
| 4-Jun-24  | 124,913                                                                                | -                             | -                             | 100%                                | 0.00%                       | 11,520                                   | 10%                                                 | 9.99%                                       |
| 5-Jun-24  | 118,499                                                                                | 30,832                        | 22,599                        | 100%                                | 42.77%                      | 12,480                                   | 10%                                                 | 9.99%                                       |
| 6-Jun-24  | 136,925                                                                                | 9,725                         | 6,552                         | 100%                                | 13.74%                      | 11,760                                   | 10%                                                 | 9.92%                                       |
| 7-Jun-24  | 103,137                                                                                | -                             | -                             | 100%                                | 0.00%                       | 10,080                                   | 10%                                                 | 7.36%                                       |
| 8-Jun-24  | 80,934                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 10,080                                   | 10%                                                 | 9.77%                                       |
| 9-Jun-24  | 67,418                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 7,920                                    | 10%                                                 | 9.79%                                       |
| 10-Jun-24 | 55,802                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 6,720                                    | 10%                                                 | 9.97%                                       |
| 11-Jun-24 | 55,986                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 5,520                                    | 10%                                                 | 9.89%                                       |
| 12-Jun-24 | 51,321                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 5,520                                    | 10%                                                 | 9.86%                                       |
| 13-Jun-24 | 43,907                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 5,088                                    | 10%                                                 | 9.91%                                       |
| 14-Jun-24 | 34,962                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 4,380                                    | 10%                                                 | 9.98%                                       |
| 15-Jun-24 | 64,188                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 3,480                                    | 10%                                                 | 9.95%                                       |
| 16-Jun-24 | 38,703                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 6,396                                    | 10%                                                 | 9.96%                                       |
| 17-Jun-24 | 27,739                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 3,852                                    | 10%                                                 | 9.95%                                       |
| 18-Jun-24 | 83,078                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 2,760                                    | 10%                                                 | 9.95%                                       |
| 19-Jun-24 | 109,427                                                                                | -                             | -                             | 100%                                | 0.00%                       | 8,280                                    | 10%                                                 | 9.97%                                       |
| 20-Jun-24 | 85,682                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 10,920                                   | 10%                                                 | 9.98%                                       |
| 21-Jun-24 | 61,183                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 8,520                                    | 10%                                                 | 9.94%                                       |
| 22-Jun-24 | 44,768                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 6,096                                    | 10%                                                 | 9.96%                                       |
| 23-Jun-24 | 30,627                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 4,440                                    | 10%                                                 | 9.92%                                       |
| 24-Jun-24 | 22,465                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 3,048                                    | 10%                                                 | 9.95%                                       |
| 25-Jun-24 | 17,227                                                                                 | -                             | -                             | 100%                                | 0.00%                       | 2,244                                    | 10%                                                 | 9.99%                                       |
| 26-Jun-24 | 20,114                                                                                 | -                             | -                             | 100%                                | 0.00%                       | -                                        | 10%                                                 | 0.00%                                       |
| 27-Jun-24 | -                                                                                      | -                             | -                             | 100%                                | 0.00%                       | -                                        | 10%                                                 | 0.00%                                       |
| 28-Jun-24 | -                                                                                      | -                             | -                             | 100%                                |                             | -                                        | 10%                                                 |                                             |
| 29-Jun-24 | -                                                                                      | -                             | -                             | 100%                                |                             | -                                        | 10%                                                 |                                             |
| 30-Jun-24 | -                                                                                      | -                             | -                             | 100%                                |                             | -                                        | 10%                                                 |                                             |

\*Previous 24-hr flow used to determine daily discharge volume



**Table C16: November 2024 Discharge and Dilution Ratios**

| Date      | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m <sup>3</sup> /day) | EDL1 Daily Discharge (m <sup>3</sup> /day) | EDL2 Daily Discharge (m <sup>3</sup> /day) | EDL1/2 Target dilution ratio (100%) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m <sup>3</sup> /day) | Sediment Pond 2 Target dilution ratio (1:X) | Sediment Pond 2 Dilution Ratio* (1 : X) |
|-----------|-----------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------|-----------------------------------|-------------------------------------------------------|---------------------------------------------|-----------------------------------------|
| 1-Nov-24  |                                                                                                     | -                                          | -                                          | 100%                                |                                   | -                                                     |                                             |                                         |
| 2-Nov-24  |                                                                                                     | -                                          | -                                          | 100%                                |                                   | -                                                     |                                             |                                         |
| 3-Nov-24  | 12,959                                                                                              | -                                          | -                                          | 100%                                |                                   | -                                                     |                                             |                                         |
| 4-Nov-24  | 13,926                                                                                              | 12,264                                     | -                                          | 100%                                | 94.64%                            | -                                                     |                                             |                                         |
| 5-Nov-24  | 14,955                                                                                              | 13,491                                     | -                                          | 100%                                | 96.87%                            | -                                                     |                                             |                                         |
| 6-Nov-24  | 11,927                                                                                              | 14,389                                     | -                                          | 100%                                | 96.22%                            | -                                                     |                                             |                                         |
| 7-Nov-24  | 12,135                                                                                              | 11,743                                     | -                                          | 100%                                | 98.46%                            | -                                                     |                                             |                                         |
| 8-Nov-24  | 11,818                                                                                              | 11,502                                     | -                                          | 100%                                | 94.78%                            | -                                                     |                                             |                                         |
| 9-Nov-24  | 10,865                                                                                              | 11,409                                     | -                                          | 100%                                | 96.54%                            | -                                                     |                                             |                                         |
| 10-Nov-24 | 15,712                                                                                              | 10,897                                     | -                                          | 100%                                | 100.30%                           | -                                                     |                                             |                                         |
| 11-Nov-24 | 15,980                                                                                              | 15,626                                     | -                                          | 100%                                | 99.46%                            | -                                                     |                                             |                                         |
| 12-Nov-24 | 12,466                                                                                              | 15,839                                     | -                                          | 100%                                | 99.11%                            | -                                                     |                                             |                                         |
| 13-Nov-24 | 17,135                                                                                              | 12,369                                     | -                                          | 100%                                | 99.23%                            | -                                                     |                                             |                                         |
| 14-Nov-24 | 29,199                                                                                              | 17,013                                     | -                                          | 100%                                | 99.29%                            | -                                                     |                                             |                                         |
| 15-Nov-24 | 29,723                                                                                              | 26,246                                     | -                                          | 100%                                | 89.89%                            | -                                                     |                                             |                                         |
| 16-Nov-24 | 29,890                                                                                              | 27,647                                     | -                                          | 100%                                | 93.02%                            | -                                                     |                                             |                                         |
| 17-Nov-24 | 31,456                                                                                              | 27,617                                     | -                                          | 100%                                | 92.39%                            | -                                                     |                                             |                                         |
| 18-Nov-24 | 30,433                                                                                              | 29,510                                     | -                                          | 100%                                | 93.81%                            | -                                                     |                                             |                                         |
| 19-Nov-24 | 131,222                                                                                             | 18,852                                     | 11,200                                     | 100%                                | 98.75%                            | -                                                     |                                             |                                         |
| 20-Nov-24 | 267,532                                                                                             | 34,845                                     | 22,373                                     | 100%                                | 43.60%                            | -                                                     |                                             |                                         |
| 21-Nov-24 | 259,705                                                                                             | 35,970                                     | 22,596                                     | 100%                                | 21.89%                            | -                                                     |                                             |                                         |
| 22-Nov-24 | 186,444                                                                                             | 35,959                                     | 22,586                                     | 100%                                | 22.54%                            | -                                                     |                                             |                                         |
| 23-Nov-24 | 157,495                                                                                             | 35,943                                     | 22,576                                     | 100%                                | 31.39%                            | -                                                     |                                             |                                         |
| 24-Nov-24 | 91,171                                                                                              | 27,512                                     | 15,723                                     | 100%                                | 27.45%                            | -                                                     |                                             |                                         |
| 25-Nov-24 | 97,682                                                                                              | 35,791                                     | 22,439                                     | 100%                                | 63.87%                            | -                                                     |                                             |                                         |
| 26-Nov-24 | 116,707                                                                                             | 35,512                                     | 22,246                                     | 100%                                | 59.13%                            | -                                                     |                                             |                                         |
| 27-Nov-24 | 104,575                                                                                             | 35,738                                     | 22,219                                     | 100%                                | 49.66%                            | -                                                     |                                             |                                         |
| 28-Nov-24 | 75,995                                                                                              | 36,124                                     | 22,481                                     | 100%                                | 56.04%                            | -                                                     |                                             |                                         |
| 29-Nov-24 |                                                                                                     | 34,129                                     | 21,290                                     | 100%                                | 72.92%                            | -                                                     |                                             |                                         |
| 30-Nov-24 |                                                                                                     | -                                          | -                                          | 100%                                |                                   | -                                                     |                                             |                                         |

\*Previous 24-hr flow used to determine daily discharge volume

Table C17: April 2024 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 4/29/2024 | 4/26/2024 | 4/24/2024 | 4/22/2024 | 4/19/2024 | 4/17/2024 | 4/15/2024 | ECA Monthly Limit | April 2024 Average |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|--------------------|
|                                      |           |                 | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      |                   |                    |
| Total Suspended Solids               | mg/L      | 30              | 7.6       | 6.2       | 6         | 5.8       | 7.6       | 6.7       | 3.6       | 15                | 6.214              |
| Ammonia, Unionized                   | mg/L      | 0.080           | 0.001     |           |           | 0.0116    |           |           | 0.0059    | 0.04              | 0.006              |
| Phosphorus, Total                    | mg/L      |                 | 0.0194    |           |           | 0.0155    |           |           | 0.012     | 0.1               | 0.016              |
| Cyanide, Total                       | mg/L      | 0.1             | 0.002     | 0.002     | 0.002     | 0.0311    | 0.002     | 0.002     | 0.002     | 0.05              | 0.0062             |
| Cyanide, Free                        | mg/L      | 0.02            | 0.002     | 0.002     | 0.002     | 0.0281    | 0.002     | 0.002     | 0.002     | 0.01              | 0.0057             |
| Arsenic, Total                       | mg/L      | 0.034           | 0.00101   |           |           | 0.00112   |           |           | 0.00108   | 0.017             | 0.0011             |
| Copper, Total                        | mg/L      | 0.028           | 0.0034    |           |           | 0.0384    |           |           | 0.0023    | 0.014             | 0.0147             |
| Lead, Total                          | mg/L      | 0.03            | 0.000593  |           |           | 0.00132   |           |           | 0.00005   | 0.015             | 0.001              |
| Nickel, Total                        | mg/L      | 0.094           | 0.00333   |           |           | 0.00747   |           |           | 0.00362   | 0.047             | 0.005              |
| Zinc, Total                          | mg/L      | 0.348           | 0.0062    |           |           | 0.005     |           |           | 0.0034    | 0.174             | 0.005              |
| Field pH                             | pH units  | 6.0-9.5         | 8.2       | 7.36      | 8.04      | 8.04      | 7.12      | 7.74      | 7.82      | 6.0-9.5           | 7.760              |
| 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                  |
| Cadmium                              | mg/L      |                 | 0.0000122 |           |           | 0.0000187 |           |           | 0.0000131 | 0.001             | 0.0000147          |
| Cobalt                               | mg/L      |                 | 0.0026    |           |           | 0.00281   |           |           | 0.00292   | 0.0044            | 0.0028             |
| <i>E. coli</i>                       | MPN/100mL |                 | 10        |           |           | 10        |           |           | 10        | 100               | 10                 |

Table C18: May 2024 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 5/29/2024 | 5/27/2024 | 5/24/2024 | 5/22/2024 | 5/20/2024 | 5/17/2024 | 5/15/2024 | 5/13/2024 | 5/10/2024 | 5/8/2024 | 5/6/2024  | 5/3/2024 | 5/1/2024 | ECA Monthly Limit | May 2024 Average |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|-------------------|------------------|
|                                      |           |                 | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      | EDL1      | EDL1     | EDL1      | EDL1     | EDL1     |                   |                  |
| Total Suspended Solids               | mg/L      | 30              | 8.9       | 5.9       | 6.8       | 14.2      | 10.1      | 4.3       | 10.7      | 12.8      | 8.2       | 7.7      | 7.9       | 7.1      | 10.1     | 15                | 8.823            |
| Ammonia, Unionized                   | mg/L      | 0.080           |           | 0.064*    |           |           | 0.012     |           |           | 0.006     |           |          | 0.012     |          |          | 0.04              | 0.023            |
| Phosphorus, Total                    | mg/L      |                 |           | 0.035     |           |           | 0.041     |           |           | 0.022     |           |          | 0.017     |          |          | 0.1               | 0.029            |
| Cyanide, Total                       | mg/L      | 0.1             | 0.002     | 0.0028    | 0.002     | 0.002     | 0.002     | 0.002     | 0.002     | 0.002     | 0.002     | 0.002    | 0.002     | 0.0196   | 0.002    | 0.05              | 0.0034           |
| Cyanide, Free                        | mg/L      | 0.02            | 0.0042    | 0.0052    | 0.0029    | 0.0021    | 0.002     | 0.002     | 0.002     | 0.002     | 0.002     | 0.002    | 0.002     | 0.022    | 0.002    | 0.01              | 0.0040           |
| Arsenic, Total                       | mg/L      | 0.034           |           | 0.001     |           |           | 0.001     |           |           | 0.001     |           |          | 0.001     |          |          | 0.017             | 0.0012           |
| Copper, Total                        | mg/L      | 0.028           |           | 0.00448   |           |           | 0.00377   |           |           | 0.0039    |           |          | 0.00264   |          |          | 0.014             | 0.0037           |
| Lead, Total                          | mg/L      | 0.03            |           | 0.000789  |           |           | 0.000444  |           |           | 0.00147   |           |          | 5.00E-05  |          |          | 0.015             | 0.001            |
| Nickel, Total                        | mg/L      | 0.094           |           | 0.0084    |           |           | 0.00478   |           |           | 0.00364   |           |          | 0.00319   |          |          | 0.047             | 0.005            |
| Zinc, Total                          | mg/L      | 0.348           |           | 0.0086    |           |           | 0.0046    |           |           | 0.0093    |           |          | 0.0044    |          |          | 0.174             | 0.007            |
| Field pH                             | pH units  | 6.0-9.5         | 8.32      | 8.33      | 8.04      | 8.25      | 8.06      | 8.02      | 7.97      | 8.07      | 8.52      | 8.45     | 8.35      | 8.18     | 8.32     | 6.0-9.5           | 8.222            |
| 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         |           |           | 2.5       |           |          | 2         |          |          | 25                | 2.1              |
| Cadmium                              | mg/L      |                 |           | 0.0000145 |           |           | 0.0000164 |           |           | 0.0000156 |           |          | 0.0000115 |          |          | 0.001             | 0.0000145        |
| Cobalt                               | mg/L      |                 |           | 0.00336   |           |           | 0.0027    |           |           | 0.00253   |           |          | 0.0025    |          |          | 0.0044            | 0.0028           |
| <i>E. coli</i>                       | MPN/100mL |                 |           | 10        |           |           | 10        |           |           | 10        |           |          | 10        |          |          | 100               | 10               |

\* Temperature of EDL1 was assumed to be the same as that of EDL2 and Un-ionized ammonia calculated accordingly

Table C19: June 2024 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 6/6/2024 | ECA Monthly Limit | June 2024 Average |
|--------------------------------------|-----------|-----------------|----------|-------------------|-------------------|
|                                      |           |                 | EDL1     |                   |                   |
| Total Suspended Solids               | mg/L      | 30              | 14.1     | 15                | 14.1              |
| Ammonia, Unionized                   | mg/L      | 0.080           | 0.186    | 0.04              | 0.186             |
| Phosphorus, Total                    | mg/L      |                 | 0.040    | 0.1               | 0.04              |
| Cyanide, Total                       | mg/L      | 0.1             | 0.0029   | 0.05              | 0.0029            |
| Cyanide, Free                        | mg/L      | 0.02            | 0.002    | 0.01              | 0.002             |
| Arsenic, Total                       | mg/L      | 0.034           | 0.00169  | 0.017             | 0.0017            |
| Copper, Total                        | mg/L      | 0.028           | 0.00583  | 0.014             | 0.0058            |
| Lead, Total                          | mg/L      | 0.03            | 0.000209 | 0.015             | 0.0002            |
| Nickel, Total                        | mg/L      | 0.094           | 0.0116   | 0.047             | 0.0116            |
| Zinc, Total                          | mg/L      | 0.348           | 0.003    | 0.174             | 0.003             |
| Field pH                             | pH units  | 6.0-9.5         | 8.45     | 6.0-9.5           | 8.45              |
| 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      |                 | 5.2      | 25                | 5.2               |
| Cadmium                              | mg/L      |                 | 0.000012 | 0.001             | 0.000012          |
| Cobalt                               | mg/L      |                 | 0.00442  | 0.0044            | 0.00442           |
| <i>E. coli</i>                       | MPN/100mL |                 | 30       | 100               | 30                |

Table C20: November 2024 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 11/29/2024 | 11/27/2024 | 11/25/2024 | 11/22/2024 | 11/20/2024 | 11/18/2024 | 11/15/2024 | 11/13/2024 | 11/12/2024 | 11/11/2024 | 11/6/2024 | 11/5/2024 | ECA Monthly Limit | November 2024 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-------------------|-----------------------|
|                                      |           |                 | EDL1       | EDL1       | EDL1       | EDL1       | EDL1       | EDL1       | EDL1       | EDL1       | EDL1       | EDL1       | EDL1      | EDL1      |                   |                       |
| Total Suspended Solids               | mg/L      | 30              |            |            | 6.2        |            |            | 12.2       |            |            |            | 8.9        |           | 5.9       | 15                | 8.3                   |
| Ammonia, Unionized                   | mg/L      | 0.080           |            |            | 0.001      |            |            | 0.0012     |            |            |            | 0.0021     |           | 0.0019    | 0.04              | 0.002                 |
| Phosphorus, Total                    | mg/L      |                 |            |            | 0.0247     |            |            | 0.0246     |            |            |            | 0.034      |           | 0.0303    | 0.1               | 0.028                 |
| Cyanide, Total                       | mg/L      | 0.1             | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.1        | 0.002      | 0.002      | 0.002     | 0.002     | 0.05              | 0.01                  |
| Cyanide, Free                        | mg/L      | 0.02            | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002     | 0.002     | 0.01              | 0.002                 |
| Arsenic, Total                       | mg/L      | 0.034           |            |            | 0.00172    |            |            | 0.00207    |            |            |            | 0.00223    |           | 0.00204   | 0.017             | 0.002                 |
| Copper, Total                        | mg/L      | 0.028           |            |            | 0.00241    |            |            | 0.00259    |            |            |            | 0.0026     |           | 0.00224   | 0.014             | 0.002                 |
| Lead, Total                          | mg/L      | 0.03            |            |            | 0.00005    |            |            | 0.00005    |            |            |            | 0.00005    |           | 0.00005   | 0.015             | 0.00005               |
| Nickel, Total                        | mg/L      | 0.094           |            |            | 0.00514    |            |            | 0.00536    |            |            |            | 0.00519    |           | 0.00717   | 0.047             | 0.006                 |
| Zinc, Total                          | mg/L      | 0.348           |            |            | 0.0051     |            |            | 0.0051     |            |            |            | 0.0062     |           | 0.0106    | 0.174             | 0.007                 |
| Field pH                             | pH units  | 6.0-9.5         | 8.05       | 7.45       | 7.48       | 8.13       | 7.98       | 7.96       | 8.07       | 8.36       | 8.22       | 8.1        | 8.37      | 7.81      | 6.0-9.5           | 8.00                  |
| 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      |                 |            |            | 3.5        |            |            | 5.1        |            |            |            | 4.3        |           | 5         | 25                | 8.6                   |
| Cadmium                              | mg/L      |                 |            |            | 0.0000079  |            |            | 0.0000099  |            |            |            | 0.0000159  |           | 0.0000117 | 0.001             | 0.00001               |
| Cobalt                               | mg/L      |                 |            |            | 0.00155    |            |            | 0.0016     |            |            |            | 0.00163    |           | 0.00158   | 0.0044            | 0.002                 |
| <i>E. coli</i>                       | MPN/100mL |                 |            |            | 10         |            |            | 10         |            |            |            | 12         |           | 10        | 100               | 10.5                  |

Table C21: April 2024 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 4/29/2024<br>EDL2 | 4/26/2024<br>EDL2 | 4/24/2024<br>EDL2 | 4/22/2024<br>EDL2 | 4/19/2024<br>EDL2 | 4/17/2024<br>EDL2 | 4/15/2024<br>EDL2 | ECA<br>Monthly | April 2024<br>Average |
|--------------------------------------|-----------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|-----------------------|
| Total Suspended Solids               | mg/L      | 30              | 6.4               | 3.6               | 6.8               | 6.2               | 6.8               | 3.7               | 5.4               | 15             | 5.6                   |
| Ammonia, Unionized                   | mg/L      | 0.080           | 0.014             |                   |                   | 0.008             |                   |                   | 0.0106            | 0.04           | 0.011                 |
| Phosphorus, Total                    | mg/L      |                 | 0.017             |                   |                   | 0.017             |                   |                   | 0.0146            | 0.1            | 0.016                 |
| Cyanide, Total                       | mg/L      | 0.1             | 0.002             | 0.0023            | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.05           | 0.002                 |
| Cyanide, Free                        | mg/L      | 0.02            | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.01           | 0.002                 |
| Arsenic, Total                       | mg/L      | 0.034           | 0.001             |                   |                   | 0.001             |                   |                   | 0.00104           | 0.017          | 0.001                 |
| Copper, Total                        | mg/L      | 0.028           | 0.00255           |                   |                   | 0.00344           |                   |                   | 0.00257           | 0.014          | 0.003                 |
| Lead, Total                          | mg/L      | 0.03            | 0.00033           |                   |                   | 0.00061           |                   |                   | 0.000396          | 0.015          | 0.00045               |
| Nickel, Total                        | mg/L      | 0.094           | 0.00326           |                   |                   | 0.00321           |                   |                   | 0.00356           | 0.047          | 0.003                 |
| Zinc, Total                          | mg/L      | 0.348           | 0.0035            |                   |                   | 0.0042            |                   |                   | 0.0044            | 0.174          | 0.004                 |
| Field pH                             | pH units  | 6.0-9.5         | 8.31              | 7.36              | 8.04              | 7.97              | 7.12              | 7.74              | 8.06              | 6.0-9.5        | 7.80                  |
| 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                     |
| Cadmium                              | mg/L      |                 | 0.0000133         |                   |                   | 0.0000124         |                   |                   | 0.0000101         | 0.001          | 0.00001               |
| Cobalt                               | mg/L      |                 | 0.00261           |                   |                   | 0.00256           |                   |                   | 0.00296           | 0.0044         | 0.003                 |
| <i>E. coli</i>                       | MPN/100mL |                 | 10                |                   |                   | 10                |                   |                   | 10                | 100            | 10                    |

Table C22: May 2024 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 5/29/2024<br>EDL2 | 5/27/2024<br>EDL2 | 5/24/2024<br>EDL2 | 5/22/2024<br>EDL2 | 5/20/2024<br>EDL2 | 5/17/2024<br>EDL2 | 5/15/2024<br>EDL2 | 5/13/2024<br>EDL2 | 5/10/2024<br>EDL2 | 5/8/2024<br>EDL2 | 5/6/2024<br>EDL2 | 5/3/2024<br>EDL2 | 5/1/2024<br>EDL2 | ECA Monthly<br>Limit | May 2024<br>Average |
|--------------------------------------|-----------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|----------------------|---------------------|
| Total Suspended Solids               | mg/L      | 30              | 5.5               | 5.1               | 7.4               | 10.3              | 9.7               | 12.7              | 10.9              | 10.6              | 7.4               | 10.7             | 8.5              | 9.9              | 8.1              | 15                   | 9.0                 |
| Ammonia, Unionized                   | mg/L      | 0.080           |                   | 0.057             |                   |                   | 0.015             |                   |                   | 0.011             |                   |                  | 0.013            |                  |                  | 0.04                 | 0.024               |
| Phosphorus, Total                    | mg/L      |                 |                   | 0.026             |                   |                   | 0.032             |                   |                   | 0.021             |                   |                  | 0.016            |                  |                  | 0.1                  | 0.024               |
| Cyanide, Total                       | mg/L      | 0.1             | 0.0022            | 0.0028            | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.002            | 0.002            | 0.002            | 0.002            | 0.05                 | 0.002               |
| Cyanide, Free                        | mg/L      | 0.02            | 0.0048            | 0.0045            | 0.0052            | 0.0022            | 0.002             | 0.002             | 0.002             | 0.002             | 0.002             | 0.002            | 0.002            | 0.002            | 0.002            | 0.01                 | 0.003               |
| Arsenic, Total                       | mg/L      | 0.034           |                   | 0.001             |                   |                   | 0.001             |                   |                   | 0.001             |                   |                  | 0.001            |                  |                  | 0.017                | 0.001               |
| Copper, Total                        | mg/L      | 0.028           |                   | 0.0045            |                   |                   | 0.00493           |                   |                   | 0.00326           |                   |                  | 0.00312          |                  |                  | 0.014                | 0.004               |
| Lead, Total                          | mg/L      | 0.03            |                   | 0.000544          |                   |                   | 0.000952          |                   |                   | 0.000608          |                   |                  | 0.000465         |                  |                  | 0.015                | 0.00064             |
| Nickel, Total                        | mg/L      | 0.094           |                   | 0.00852           |                   |                   | 0.00484           |                   |                   | 0.00353           |                   |                  | 0.00321          |                  |                  | 0.047                | 0.005               |
| Zinc, Total                          | mg/L      | 0.348           |                   | 0.0049            |                   |                   | 0.0144            |                   |                   | 0.0076            |                   |                  | 0.005            |                  |                  | 0.174                | 0.008               |
| Field pH                             | pH units  | 6.0-9.5         | 8.44              | 8.26              | 7.75              | 8.25              | 8.13              | 8.08              | 7.97              | 8.36              | 8.52              | 8.45             | 8.42             | 8.13             | 8.32             | 6.0-9.5              | 8.24                |
| 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                 |                   |                   | 2.1               |                   |                  | 2.6              |                  |                  | 25                   | 2.2                 |
| Cadmium                              | mg/L      |                 |                   | 0.0000145         |                   |                   | 0.0000123         |                   |                   | 0.0000166         |                   |                  | 0.0000136        |                  |                  | 0.001                | 0.00001             |
| Cobalt                               | mg/L      |                 |                   | 0.00336           |                   |                   | 0.0027            |                   |                   | 0.00247           |                   |                  | 0.00253          |                  |                  | 0.0044               | 0.003               |
| <i>E. coli</i>                       | MPN/100mL |                 |                   | 10                |                   |                   | 10                |                   |                   | 10                |                   |                  | 10               |                  |                  | 100                  | 10                  |

Table C23: June 2024 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 6/5/2024<br>EDL2 | ECA Monthly<br>Limit | June 2024<br>Average |
|--------------------------------------|-----------|-----------------|------------------|----------------------|----------------------|
| Total Suspended Solids               | mg/L      | 30              | 15.7             | 15                   | 15.7                 |
| Ammonia, Unionized                   | mg/L      | 0.080           | 0.164            | 0.04                 | 0.164                |
| Phosphorus, Total                    | mg/L      |                 | 0.043            | 0.1                  | 0.043                |
| Cyanide, Total                       | mg/L      | 0.1             | 0.002            | 0.05                 | 0.002                |
| Cyanide, Free                        | mg/L      | 0.02            | 0.0025           | 0.01                 | 0.003                |
| Arsenic, Total                       | mg/L      | 0.034           | 0.002            | 0.017                | 0.002                |
| Copper, Total                        | mg/L      | 0.028           | 0.00605          | 0.014                | 0.006                |
| Lead, Total                          | mg/L      | 0.03            | 0.00038          | 0.015                | 0.00038              |
| Nickel, Total                        | mg/L      | 0.094           | 0.0117           | 0.047                | 0.012                |
| Zinc, Total                          | mg/L      | 0.348           | 0.0034           | 0.174                | 0.003                |
| Field pH                             | pH units  | 6.0-9.5         | 8.34             | 6.0-9.5              | 8.34                 |
| Acute Toxicity, Rainbow Trout        | Pass/Fail | Pass            | Pass             | Pass                 | Pass                 |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass            | Pass             | Pass                 | Pass                 |
| CBOD5                                | mg/L      |                 | 5.6              | 25                   | 5.6                  |
| Cadmium                              | mg/L      |                 | 0.000016         | 0.001                | 0.00002              |
| Cobalt                               | mg/L      |                 | 0.00445          | 0.0044               | 0.00445              |
| <i>E. coli</i>                       | MPN/100mL |                 | 10               | 100                  | 10                   |

Table C24: November 2024 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 11/29/2024 | 11/27/2024 | 11/25/2024 | 11/22/2024 | 11/20/2024 | 11/19/2024 | ECA<br>Monthly<br>Limit | November<br>2024<br>Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|------------|------------|-------------------------|-----------------------------|
|                                      |           |                 | EDL2       | EDL2       | EDL2       | EDL2       | EDL2       | EDL2       |                         |                             |
| Total Suspended Solids               | mg/L      | 30              |            |            | 6.8        |            |            | 8.2        | 15                      | 7.5                         |
| Ammonia, Unionized                   | mg/L      | 0.080           |            |            | 0.0015     |            |            | 0.001      | 0.04                    | 0.001                       |
| Phosphorus, Total                    | mg/L      |                 |            |            | 0.0291     |            |            | 0.0295     | 0.1                     | 0.029                       |
| Cyanide, Total                       | mg/L      | 0.1             | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.05                    | 0.002                       |
| Cyanide, Free                        | mg/L      | 0.02            | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.002      | 0.01                    | 0.002                       |
| Arsenic, Total                       | mg/L      | 0.034           |            |            | 0.00174    |            |            | 0.00198    | 0.017                   | 0.002                       |
| Copper, Total                        | mg/L      | 0.028           |            |            | 0.00239    |            |            | 0.00263    | 0.014                   | 0.003                       |
| Lead, Total                          | mg/L      | 0.03            |            |            | 0.00005    |            |            | 0.00005    | 0.015                   | 0.0001                      |
| Nickel, Total                        | mg/L      | 0.094           |            |            | 0.00498    |            |            | 0.00521    | 0.047                   | 0.005                       |
| Zinc, Total                          | mg/L      | 0.348           |            |            | 0.0071     |            |            | 0.007      | 0.174                   | 0.007                       |
| Field pH                             | pH units  | 6.0-9.5         | 7.32       | 8.14       | 8.04       | 8          | 8.06       | 7.69       | 6.0-9.5                 | 7.88                        |
| 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      |                 |            |            | 3.6        |            |            | 5.4        | 25                      | 4.5                         |
| Cadmium                              | mg/L      |                 |            |            | 0.0000089  |            |            | 0.0000109  | 0.001                   | 0.00001                     |
| Cobalt                               | mg/L      |                 |            |            | 0.0015     |            |            | 0.00158    | 0.0044                  | 0.002                       |
| <i>E. coli</i>                       | MPN/100mL |                 |            |            | 10         |            |            | 10         | 100                     | 10                          |



Table C25: April 2024 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 4/29/2024  | 4/22/2024  | 4/15/2024  | ECA Monthly Limit | April 2024 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|-------------------|--------------------|
|                                      |           |                 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 |                   |                    |
| Total Suspended Solids               | mg/L      | 30              | 4          | 3.8        | 3          | 15                | 3.6                |
| Ammonia, Unionized                   | mg/L      | 0.4             | 0.0041     | 0.0058     | 0.0047     | 0.2               | 0.005              |
| Phosphorus, Total                    | mg/L      |                 | 0.017      | 0.0171     | 0.0164     | 0.1               | 0.017              |
| Cyanide, Free                        | mg/L      | 0.02            | 0.002      | 0.002      | 0.002      | 0.01              | 0.002              |
| Cyanide, Total                       | mg/L      | 0.1             | 0.002      | 0.002      | 0.002      | 0.05              | 0.002              |
| Arsenic, Total                       | mg/L      | 0.034           | 0.00128    | 0.00134    | 0.00136    | 0.017             | 0.0013             |
| Copper, Total                        | mg/L      | 0.028           | 0.00389    | 0.00144    | 0.0036     | 0.014             | 0.0030             |
| Lead, Total                          | mg/L      | 0.094           | 0.000206   | 0.00005    | 0.000095   | 0.047             | 0.00012            |
| Nickel, Total                        | mg/L      | 0.03            | 0.00111    | 0.00102    | 0.00116    | 0.015             | 0.00110            |
| Zinc, Total                          | mg/L      | 0.348           | 0.0093     | 0.003      | 0.0116     | 0.174             | 0.00797            |
| Field pH                             | pH units  | 6.0-9.5         | 8.5        | 8.27       | 8.06       | 6.0-9.5           | 8.28               |
| 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        | 2.1        | 2          | 25                | 2.1                |
| Cadmium                              | mg/L      |                 | 0.0000061  | 0.000005   | 0.000006   | 0.001             | 0.000006           |
| Cobalt                               | mg/L      |                 | 0.0003     | 0.00027    | 0.00026    | 0.0044            | 0.000277           |
| <i>E. coli</i>                       | MPN/100mL |                 | 10         | 1          | 10         | 100               | 7                  |

Table C26: May 2024 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 5/27/2024  | 5/20/2024  | 5/13/2024  | 5/6/2024   | ECA Monthly Limit | May 2024 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|-------------------|------------------|
|                                      |           |                 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 |                   |                  |
| Total Suspended Solids               | mg/L      | 30              | 3          | 3.3        | 3.8        | 3.3        | 15                | 3.4              |
| Ammonia, Unionized                   | mg/L      | 0.4             | 0.0103     | 0.001      | 0.001      | 0.0025     | 0.2               | 0.004            |
| Phosphorus, Total                    | mg/L      |                 | 0.0227     | 0.0185     | 0.0144     | 0.015      | 0.1               | 0.018            |
| Cyanide, Free                        | mg/L      | 0.02            | 0.0034     | 0.002      | 0.002      | 0.002      | 0.01              | 0.0024           |
| Cyanide, Total                       | mg/L      | 0.1             | 0.0046     | 0.002      | 0.002      | 0.002      | 0.05              | 0.0027           |
| Arsenic, Total                       | mg/L      | 0.034           | 0.00142    | 0.00128    | 0.00121    | 0.00119    | 0.017             | 0.0013           |
| Copper, Total                        | mg/L      | 0.028           | 0.00211    | 0.00399    | 0.00158    | 0.00206    | 0.014             | 0.0024           |
| Lead, Total                          | mg/L      | 0.094           | 0.000059   | 0.000126   | 5.00E-05   | 5.00E-05   | 0.047             | 0.00007          |
| Nickel, Total                        | mg/L      | 0.03            | 0.00111    | 0.0011     | 0.00108    | 0.00108    | 0.015             | 0.00109          |
| Zinc, Total                          | mg/L      | 0.348           | 0.004      | 0.0073     | 0.003      | 0.0048     | 0.174             | 0.00478          |
| Field pH                             | pH units  | 6.0-9.5         | 8.31       | 8.34       | 8.26       | 8.45       | 6.0-9.5           | 8.34             |
| Acute Toxicity, Rainbow Trout        | Pass/Fail | Pass            |            |            | Pass       |            | Pass              | Pass             |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass            |            |            | Pass       |            | Pass              | Pass             |
| CBOD5                                | mg/L      |                 | 2          | 2          | 2          | 2          | 25                | 2                |
| Cadmium                              | mg/L      |                 | 0.0000073  | 0.0000072  | 5.00E-06   | 0.0000052  | 0.001             | 0.000006         |
| Cobalt                               | mg/L      |                 | 0.0005     | 0.00033    | 0.00035    | 0.0003     | 0.0044            | 0.000370         |
| <i>E. coli</i>                       | MPN/100mL |                 | 10         | 10         | 10         | 10         | 100               | 10               |

Table C27: June 2024 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter                            | Units     | ECA Daily Limit | 6/24/2024  | 6/17/2024  | 6/10/2024  | 6/3/2024   | ECA Monthly Limit | June 2024  |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|-------------------|------------|
|                                      |           |                 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 |                   | Average    |
| Total Suspended Solids               | mg/L      | 30              | 3          | 4.6        | 4.4        | 3          | 15                | 3.8        |
| Ammonia, Unionized                   | mg/L      | 0.4             | 0.0012     | 0.0033     | 0.001      | 0.003*     | 0.2               | 0.002125** |
| Phosphorus, Total                    | mg/L      |                 | 0.0176     | 0.025      | 0.0312     | 0.0286     | 0.1               | 0.026      |
| Cyanide, Free                        | mg/L      | 0.02            | 0.01       | 0.002      | 0.002      | 0.002      | 0.01              | 0.004      |
| Cyanide, Total                       | mg/L      | 0.1             | 0.01       | 0.002      | 0.002      | 0.002      | 0.05              | 0.004      |
| Arsenic, Total                       | mg/L      | 0.034           | 0.0015     | 0.00161    | 0.00156    | 0.00148    | 0.017             | 0.0015     |
| Copper, Total                        | mg/L      | 0.028           | 0.00166    | 0.00133    | 0.00158    | 0.00206    | 0.014             | 0.0017     |
| Lead, Total                          | mg/L      | 0.094           | 5.00E-05   | 5.00E-05   | 5.00E-05   | 5.00E-05   | 0.047             | 0.00005    |
| Nickel, Total                        | mg/L      | 0.03            | 0.00108    | 0.001      | 0.00108    | 0.00113    | 0.015             | 0.00107    |
| Zinc, Total                          | mg/L      | 0.348           | 0.003      | 0.003      | 0.003      | 0.0063     | 0.174             | 0.00383    |
| Field pH                             | pH units  | 6.0-9.5         | 8.03       | 8.51       | 8.44       | 8.26       | 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      |                 | 2.7        | 3          | 3.3        | 2.1        | 25                | 2.8        |
| Cadmium                              | mg/L      |                 | 5.00E-06   | 0.0000052  | 8.30E-06   | 0.0000082  | 0.001             | 0.000007   |
| Cobalt                               | mg/L      |                 | 0.00044    | 0.00034    | 0.00038    | 0.00043    | 0.0044            | 0.000398   |
| <i>E. coli</i>                       | MPN/100mL |                 | 10         | 10         | 10         | 10         | 100               | 10         |

\*\* Average was hardcoded prior to adding the asterisk in the table

\* Temperature for June 3rd was assumed to be 20 degrees based on the temperature of Sediment Pond 1 sampled on June 5th (19.23 degrees C)

\* Un-ionized ammonia for June 3rd was calculated based on the assumption of 20 degrees Celsius temperature

2024 Annual Surface Water Report  
Appendix D

Surface Water Certificates of Analysis



## CERTIFICATE OF ANALYSIS

|                         |                                                |                         |                                                       |
|-------------------------|------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2400135                                    | Page                    | : 1 of 17                                             |
| Client                  | : New Gold Inc. (Rainy River)                  | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell    | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0     | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                 | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                | Date Samples Received   | : 05-Jan-2024 09:05                                   |
| PO                      | : 4700002620                                   | Date Analysis Commenced | : 05-Jan-2024                                         |
| C-O-C number            | : ----                                         | Issue Date              | : 23-Jan-2024 13:11                                   |
| Sampler                 | : ----                                         |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                  |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Picka Project |                         |                                                       |
| No. of samples received | : 10                                           |                         |                                                       |
| No. of samples analysed | : 10                                           |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                               | Laboratory Department                            |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Cassandra Grzelewski | Team Leader - Inorganics               | Administration, Thunder Bay, Ontario             |
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics               | Metals, Thunder Bay, Ontario                     |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Nik Perkio           | Inorganics Analyst                     | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Inorganics Analyst                     | Metals, Waterloo, Ontario                        |
| Niki Goebel          |                                        | Metals, Waterloo, Ontario                        |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| RRV       | Reported result verified by repeat analysis.                                                           |



Analytical Results

|                                          |            |              |        |          |                             |                            |                            |                          |                            |
|------------------------------------------|------------|--------------|--------|----------|-----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Sub-Matrix: Surface Water                |            |              |        |          | Client sample ID            |                            |                            |                          |                            |
| (Matrix: Water)                          |            |              |        |          | SW28A_SW_20<br>240102<br>SW | SW10_SW_202<br>40102<br>SW | SW03_SW_202<br>40102<br>SW | FB_SW_202401<br>02<br>SW | SW26_SW_202<br>40102<br>SW |
| Client sampling date / time              |            |              |        |          | 02-Jan-2024<br>09:35        | 02-Jan-2024<br>10:00       | 02-Jan-2024<br>10:50       | 02-Jan-2024<br>12:00     | 02-Jan-2024<br>13:55       |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2400135-001               | TY2400135-002              | TY2400135-003              | TY2400135-005            | TY2400135-006              |
|                                          |            |              |        |          | Result                      | Result                     | Result                     | Result                   | Result                     |
| Field Tests                              |            |              |        |          |                             |                            |                            |                          |                            |
| Oxygen, dissolved, field                 | ---        | EF001/TY     | 0.01   | mg/L     | 12.27                       | 11.34                      | 9.04                       | ----                     | 11.26                      |
| pH, field                                | ---        | EF001/TY     | 0.10   | pH units | 7.45                        | 7.33                       | 7.13                       | ----                     | 7.46                       |
| Temperature, field                       | ---        | EF001/TY     | 0.10   | °C       | 0.15                        | 0.16                       | 0.27                       | ----                     | 0.13                       |
| Physical Tests                           |            |              |        |          |                             |                            |                            |                          |                            |
| Acidity (as CaCO3)                       | ---        | E283/TY      | 2.0    | mg/L     | 4.7                         | 6.4                        | 9.5                        | <2.0                     | 4.2                        |
| Colour, true                             | ---        | E329-L/TY    | 2.0    | CU       | 87.1                        | 110                        | 85.0                       | <2.0                     | 96.6                       |
| Conductivity                             | ---        | E100/TY      | 1.0    | µS/cm    | 225                         | 353                        | 388                        | 1.4                      | 333                        |
| Hardness (as CaCO3), dissolved           | ---        | EC100/TY     | 0.50   | mg/L     | 127                         | 166                        | 184                        | <0.50                    | 175                        |
| pH                                       | ---        | E108/TY      | 0.10   | pH units | 7.92                        | 7.87                       | 7.73                       | 6.12                     | 8.01                       |
| Solids, total dissolved [TDS]            | ---        | E162/TY      | 10     | mg/L     | 160                         | 256                        | 260                        | <10                      | 242                        |
| Solids, total suspended [TSS]            | ---        | E160/TY      | 3.0    | mg/L     | <3.0                        | 6.3                        | 14.1                       | <3.0                     | 3.5                        |
| Turbidity                                | ---        | E121/TY      | 0.10   | NTU      | 1.26                        | 8.08                       | 12.8                       | <0.10                    | 7.13                       |
| Alkalinity, total (as CaCO3)             | ---        | E290/TY      | 2.0    | mg/L     | 120                         | 152                        | 176                        | <2.0                     | 162                        |
| Anions and Nutrients                     |            |              |        |          |                             |                            |                            |                          |                            |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0123 <sup>&lt;T</sup>     | 0.0274 <sup>&lt;T</sup>    | 0.0259 <sup>&lt;T</sup>    | <0.0050                  | 0.0055 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                     | <0.0010                    | <0.0010                    | ----                     | <0.0010                    |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 2.32                        | 24.9                       | 23.9                       | <0.10                    | 12.8                       |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.046                       | 0.035                      | 0.048                      | <0.020                   | 0.035                      |
| Kjeldahl nitrogen, total [TKN]           | ---        | E318/TY      | 0.050  | mg/L     | 1.12                        | 1.09                       | 1.16                       | <0.050                   | 0.855                      |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                      | 0.075 <sup>&lt;T</sup>     | 0.085 <sup>&lt;T</sup>     | <0.020                   | 0.034 <sup>&lt;T</sup>     |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                      | <0.010                     | <0.010                     | <0.010                   | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010                     | 0.0126                     | 0.0190                     | <0.0010                  | <0.0010                    |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 1.13                        | 9.58                       | 13.5                       | <0.30                    | 12.7                       |
| Cyanides                                 |            |              |        |          |                             |                            |                            |                          |                            |
| Cyanide, free                            | ---        | E339/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ---        | E333/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, weak acid dissociable           | ---        | E336/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Organic / Inorganic Carbon               |            |              |        |          |                             |                            |                            |                          |                            |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW28A_SW_20<br>240102<br>SW | SW10_SW_202<br>40102<br>SW | SW03_SW_202<br>40102<br>SW | FB_SW_202401<br>02<br>SW | SW26_SW_202<br>40102<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 02-Jan-2024<br>09:35 | 02-Jan-2024<br>10:00        | 02-Jan-2024<br>10:50       | 02-Jan-2024<br>12:00       | 02-Jan-2024<br>13:55     |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2400135-001        | TY2400135-002               | TY2400135-003              | TY2400135-005              | TY2400135-006            |                            |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                     | Result                   |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                             |                            |                            |                          |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT  | 0.50      | mg/L | 28.2                 | 33.8                        | 26.2                       | <0.50                      | 25.5                     |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 28.8                 | 29.2                        | 26.4                       | <0.50                      | 25.8                     |                            |
| Total Metals                                 |            |            |           |      |                      |                             |                            |                            |                          |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0306               | 0.356                       | 0.472                      | <0.0030                    | 0.273                    |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | 0.00013 <T                 | <0.00010                   | 0.00012 <T               |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00086 <T           | 0.00093 <T                  | 0.00097 <T                 | <0.00010                   | 0.00098 <T               |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0138               | 0.0207                      | 0.0241                     | 0.00055 RRV                | 0.0210                   |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                   | <0.000020                  | <0.000020                  | <0.000020                |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.010                | 0.016 <T                    | 0.016 <T                   | <0.010                     | 0.012 <T                 |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050           | 0.0000110 <T                | 0.0000110 <T               | <0.0000050                 | 0.0000170 <T             |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 29.8                 | 38.2                        | 44.9                       | 0.091 RRV                  | 42.9                     |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010            | 0.000049                    | 0.000069                   | <0.000010                  | 0.000039                 |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | 0.00080 <T                  | 0.00104 <T                 | <0.00050                   | 0.00068 <T               |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00047 <T           | 0.00036 <T                  | 0.00055 <T                 | <0.00010                   | 0.00023 <T               |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00535 <T           | 0.00457 <T                  | 0.00414 <T                 | 0.00242 <T, RRV            | 0.00345 <T               |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.318                | 0.740                       | 0.976                      | <0.010                     | 0.576                    |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050            | 0.000224 <T                 | 0.000309 <T                | <0.000050                  | 0.000326 <T              |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0034 <T            | 0.0061 <T                   | 0.0064 <T                  | <0.0010                    | 0.0045 <T                |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 13.2                 | 16.1                        | 17.5                       | 0.0152 <T, RRV             | 15.4                     |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.00901              | 0.0473                      | 0.110                      | 0.00014 RRV                | 0.0229                   |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050               |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000264 <T          | 0.000481 <T                 | 0.000871 <T                | <0.000050                  | 0.000417 <T              |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00105 <T           | 0.00174 <T                  | 0.00220 <T                 | <0.00050                   | 0.00123 <T               |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                      | 0.053                      | <0.050                     | <0.050                   |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.05                 | 2.34                        | 3.73                       | <0.050                     | 1.74                     |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00159              | 0.00250                     | 0.00317                    | <0.00020                   | 0.00186                  |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000149 <T          | 0.000202 <T                 | 0.000178 <T                | <0.000050                  | 0.000151 <T              |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 4.15                 | 7.07                        | 7.26                       | 0.27 RRV                   | 5.48                     |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW28A_SW_20<br>240102<br>SW | SW10_SW_202<br>40102<br>SW | SW03_SW_202<br>40102<br>SW    | FB_SW_202401<br>02<br>SW  | SW26_SW_202<br>40102<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|-------------------------------|---------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 02-Jan-2024<br>09:35      | 02-Jan-2024<br>10:00        | 02-Jan-2024<br>10:50       | 02-Jan-2024<br>12:00          | 02-Jan-2024<br>13:55      |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2400135-001             | TY2400135-002               | TY2400135-003              | TY2400135-005                 | TY2400135-006             |                            |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                        | Result                    |                            |
| Total Metals                                 |            |            |           |      |                           |                             |                            |                               |                           |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                     | 0.000011 <sup>&lt;T</sup> |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 1.53                      | 10.6                        | 9.36                       | 0.389 <sup>RRV</sup>          | 4.56                      |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0603                    | 0.102                       | 0.116                      | 0.00037 <sup>&lt;T, RRV</sup> | 0.0982                    |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 0.76                      | 3.29                        | 5.01                       | <0.50                         | 4.92                      |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                      | <0.00020                  |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                     | <0.000010                 |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                      | <0.00010                  |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                      | <0.00010                  |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00108                   | 0.0129                      | 0.0173                     | <0.00030                      | <0.0117 <sup>DLM</sup>    |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                      | <0.00010                  |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000362 <sup>&lt;T</sup> | 0.000890 <sup>&lt;T</sup>   | 0.00107 <sup>&lt;T</sup>   | <0.000010                     | 0.00115 <sup>&lt;T</sup>  |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00077                   | 0.00171                     | 0.00202                    | <0.00050                      | 0.00128                   |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | 0.0032 <sup>&lt;T</sup>     | 0.0047 <sup>&lt;T</sup>    | <0.0030                       | 0.0171                    |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                  | 0.00049                     | 0.00058                    | <0.00020                      | 0.00049                   |                            |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                               |                           |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0110                    | 0.0262                      | 0.0163                     | 0.0012 <sup>RRV</sup>         | 0.0211                    |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | 0.00012                    | <0.00010                      | <0.00010                  |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00074                   | 0.00079                     | 0.00073                    | <0.00010                      | 0.00084                   |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0134                    | 0.0186                      | 0.0191                     | 0.00052 <sup>RRV</sup>        | 0.0189                    |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | 0.000021                    | <0.000020                  | <0.000020                     | <0.000020                 |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                  | <0.000050                     | <0.000050                 |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | 0.016                       | 0.015                      | <0.010                        | 0.012                     |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000062                   | <0.0000050                 | <0.0000050                    | 0.0000062                 |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 30.0                      | 39.1                        | 44.5                       | 0.085 <sup>RRV</sup>          | 44.5                      |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                     | <0.000010                 |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                    | <0.00050                   | <0.00050                      | <0.00050                  |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                  | 0.00013                     | 0.00012                    | <0.00010                      | <0.00010                  |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00097                   | 0.00126                     | 0.00173                    | 0.00084 <sup>RRV</sup>        | 0.00149                   |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.254                     | 0.340                       | 0.280                      | <0.010                        | 0.255                     |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW28A_SW_20<br>240102<br>SW | SW10_SW_202<br>40102<br>SW | SW03_SW_202<br>40102<br>SW | FB_SW_202401<br>02<br>SW | SW26_SW_202<br>40102<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 02-Jan-2024<br>09:35 | 02-Jan-2024<br>10:00        | 02-Jan-2024<br>10:50       | 02-Jan-2024<br>12:00       | 02-Jan-2024<br>13:55     |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2400135-001        | TY2400135-002               | TY2400135-003              | TY2400135-005              | TY2400135-006            |                            |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                     | Result                   |                            |
| Dissolved Metals                             |            |            |           |      |                      |                             |                            |                            |                          |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050            | 0.000074                    | 0.000061                   | <0.000050                  | 0.000103                 |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0044               | 0.0075                      | 0.0073                     | <0.0010                    | 0.0059                   |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 12.7                 | 16.7                        | 17.6                       | 0.0141 <sup>RRV</sup>      | 15.6                     |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00444              | 0.00843                     | 0.00278                    | 0.00014 <sup>RRV</sup>     | 0.0130                   |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050               |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000264             | 0.000460                    | 0.000855                   | <0.000050                  | 0.000396                 |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00083              | 0.00134                     | 0.00145                    | <0.00050                   | 0.00096                  |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                      | <0.050                     | <0.050                     | <0.050                   |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.03                 | 2.51                        | 3.76                       | <0.050                     | 1.69                     |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00155              | 0.00185                     | 0.00227                    | <0.00020                   | 0.00137                  |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000136             | 0.000175                    | 0.000179                   | <0.000050                  | 0.000155                 |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 3.90                 | 6.10                        | 5.89                       | 0.227 <sup>RRV</sup>       | 4.84                     |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 1.59                 | 11.0                        | 9.47                       | 0.380 <sup>RRV</sup>       | 4.76                     |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0605               | 0.102                       | 0.119                      | 0.00037 <sup>RRV</sup>     | 0.0995                   |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 0.72                 | 3.39                        | 5.03                       | <0.50                      | 4.95                     |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                 |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                 |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                 |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00033              | 0.00207                     | 0.00182                    | <0.00030                   | 0.00202                  |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                 |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000379             | 0.000866                    | 0.00103                    | <0.000010                  | 0.00119                  |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | 0.00052                     | <0.00050                   | <0.00050                   | <0.00050                 |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0010              | <0.0010                     | <0.0010                    | <0.0010                    | 0.0128                   |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | 0.00035                     | 0.00032                    | <0.00030                   | <0.00030                 |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                  | Laboratory                 | Field                      | Laboratory               |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                  | Laboratory                 | Laboratory                 | Laboratory               |                            |
| Aggregate Organics                           |            |            |           |      |                      |                             |                            |                            |                          |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |     |      | Client sample ID     | SW28A_SW_20<br>240102<br>SW | SW10_SW_202<br>40102<br>SW | SW03_SW_202<br>40102<br>SW | FB_SW_202401<br>02<br>SW | SW26_SW_202<br>40102<br>SW |
|----------------------------------------------|------------|------------|-----|------|----------------------|-----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time                  |            |            |     |      | 02-Jan-2024<br>09:35 | 02-Jan-2024<br>10:00        | 02-Jan-2024<br>10:50       | 02-Jan-2024<br>12:00       | 02-Jan-2024<br>13:55     |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR | Unit | TY2400135-001        | TY2400135-002               | TY2400135-003              | TY2400135-005              | TY2400135-006            |                            |
|                                              |            |            |     |      | Result               | Result                      | Result                     | Result                     | Result                   |                            |
| Aggregate Organics                           |            |            |     |      |                      |                             |                            |                            |                          |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0 | mg/L | <2.0                 | <2.0                        | <2.0                       | <2.0                       | <2.0                     |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10  | mg/L | 91                   | 80                          | 75                         | <10                        | 69                       |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0 | mg/L | <1.0                 | <1.0                        | <1.0                       | <1.0                       | <1.0                     |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                              |            |              |        |          |                      |                            |                            |                            |                          |      |
|----------------------------------------------|------------|--------------|--------|----------|----------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID     | SW25_SW_202<br>40102<br>SW | SW20_SW_202<br>40102<br>SW | SW02_SW_202<br>40102<br>SW | TB_SW_20240<br>102<br>SW | ---- |
| Client sampling date / time                  |            |              |        |          |                      | 02-Jan-2024<br>14:35       | 02-Jan-2024<br>15:30       | 02-Jan-2024<br>16:10       | 04-Jan-2024<br>17:44     | ---- |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2400135-007        | TY2400135-008              | TY2400135-009              | TY2400135-010              | -----                    |      |
|                                              |            |              |        |          | Result               | Result                     | Result                     | Result                     | ----                     |      |
| Field Tests                                  |            |              |        |          |                      |                            |                            |                            |                          |      |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 9.48                 | 8.22                       | 7.06                       | ----                       | ----                     |      |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.81                 | 7.36                       | 6.79                       | ----                       | ----                     |      |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 0.20                 | 0.32                       | 0.29                       | ----                       | ----                     |      |
| Physical Tests                               |            |              |        |          |                      |                            |                            |                            |                          |      |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 3.7                  | 7.8                        | 14.0                       | 2.3                        | ----                     |      |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 101                  | 91.7                       | 195                        | <2.0                       | ----                     |      |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 304                  | 375                        | 146                        | <1.0                       | ----                     |      |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 156                  | 163                        | 84.7                       | <0.50                      | ----                     |      |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 8.01                 | 7.77                       | 7.27                       | 5.42                       | ----                     |      |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 209                  | 248                        | 160                        | <10                        | ----                     |      |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 3.5                  | 3.9                        | <3.0                       | <3.0                       | ----                     |      |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 6.08                 | 5.97                       | 1.88                       | <0.10                      | ----                     |      |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 140                  | 142                        | 75.2                       | <2.0                       | ----                     |      |
| Anions and Nutrients                         |            |              |        |          |                      |                            |                            |                            |                          |      |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0079 <sup>°T</sup> | 0.0233 <sup>°T</sup>       | 0.0663 <sup>°T</sup>       | <0.0050                    | ----                     |      |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010              | <0.0010                    | <0.0010                    | ----                       | ----                     |      |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 12.5                 | 33.5                       | 0.53                       | <0.10                      | ----                     |      |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.032                | 0.030                      | <0.020                     | <0.020                     | ----                     |      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.851                | 0.983                      | 1.14                       | <0.050                     | ----                     |      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.026 <sup>°T</sup>  | 0.042 <sup>°T</sup>        | <0.020                     | <0.020                     | ----                     |      |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010               | <0.010                     | <0.010                     | <0.010                     | ----                     |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010              | 0.0059                     | <0.0100 <sup>DLM</sup>     | <0.0010                    | ----                     |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 10.0                 | 8.69                       | 0.83                       | <0.30                      | ----                     |      |
| Cyanides                                     |            |              |        |          |                      |                            |                            |                            |                          |      |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020              | <0.0020                    | <0.0020                    | <0.0020                    | ----                     |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020              | <0.0020                    | <0.0020                    | <0.0020                    | ----                     |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020              | <0.0020                    | <0.0020                    | <0.0020                    | ----                     |      |
| Organic / Inorganic Carbon                   |            |              |        |          |                      |                            |                            |                            |                          |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 26.7                 | 27.0                       | 42.9                       | <0.50                      | ----                     |      |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW25_SW_202<br>40102<br>SW | SW20_SW_202<br>40102<br>SW | SW02_SW_202<br>40102<br>SW | TB_SW_20240<br>102<br>SW | ---- |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Client sampling date / time                  |            |            |           |      | 02-Jan-2024<br>14:35 | 02-Jan-2024<br>15:30       | 02-Jan-2024<br>16:10       | 04-Jan-2024<br>17:44       | ----                     |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2400135-007        | TY2400135-008              | TY2400135-009              | TY2400135-010              | -----                    |      |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                     | ----                     |      |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                            |                            |                          |      |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 26.6                 | 26.6                       | 41.9                       | <0.50                      | ----                     |      |
| Total Metals                                 |            |            |           |      |                      |                            |                            |                            |                          |      |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.308                | 0.222                      | 0.0800                     | <0.0030                    | ----                     |      |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | ----                     |      |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00098 <T           | 0.00079 <T                 | 0.00087 <T                 | <0.00010                   | ----                     |      |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0182               | 0.0181                     | 0.0112                     | <0.00010                   | ----                     |      |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                  | <0.000020                  | <0.000020                  | ----                     |      |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                  | <0.000050                  | ----                     |      |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.010                | 0.012 <T                   | <0.010                     | <0.010                     | ----                     |      |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000160 <T         | 0.0000080 <T               | <0.0000050                 | <0.0000050                 | ----                     |      |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 40.4                 | 38.2                       | 20.6                       | <0.050                     | ----                     |      |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000046             | 0.000026                   | <0.000010                  | <0.000010                  | ----                     |      |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00079 <T           | 0.00063 <T                 | <0.00050                   | <0.00050                   | ----                     |      |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00031 <T           | 0.00030 <T                 | 0.00051 <T                 | <0.00010                   | ----                     |      |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00292 <T           | 0.00211 <T                 | 0.00162 <T                 | 0.00103 <T, RRV            | ----                     |      |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.699                | 0.711                      | 0.731                      | <0.010                     | ----                     |      |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000613 <T          | 0.000139 <T                | 0.000160 <T                | <0.000050                  | ----                     |      |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0037 <T            | 0.0053 <T                  | 0.0020 <T                  | <0.0010                    | ----                     |      |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 14.1                 | 16.7                       | 8.41                       | <0.0050                    | ----                     |      |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0394               | 0.0569                     | 0.262                      | <0.00010                   | ----                     |      |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                 | ----                     |      |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000357 <T          | 0.000334 <T                | 0.000054 <T                | <0.000050                  | ----                     |      |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00140 <T           | 0.00158 <T                 | 0.00060 <T                 | <0.00050                   | ----                     |      |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                     | <0.050                     | ----                     |      |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.78                 | 2.10                       | 0.818                      | <0.050                     | ----                     |      |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00210              | 0.00211                    | 0.00195                    | <0.00020                   | ----                     |      |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000164 <T          | 0.000145 <T                | 0.000162 <T                | <0.000050                  | ----                     |      |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 5.39                 | 7.45                       | 7.72                       | <0.10                      | ----                     |      |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | ----                     |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW25_SW_202<br>40102<br>SW | SW20_SW_202<br>40102<br>SW | SW02_SW_202<br>40102<br>SW | TB_SW_20240<br>102<br>SW | ---- |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Client sampling date / time                  |            |            |           |      | 02-Jan-2024<br>14:35      | 02-Jan-2024<br>15:30       | 02-Jan-2024<br>16:10       | 04-Jan-2024<br>17:44       | ----                     |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2400135-007             | TY2400135-008              | TY2400135-009              | TY2400135-010              | -----                    |      |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                     | ----                     |      |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                            |                          |      |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 4.24                      | 15.1                       | 1.16                       | <0.050                     | ----                     |      |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0863                    | 0.0967                     | 0.0323                     | <0.00020                   | ----                     |      |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 3.98                      | 3.78                       | 0.59                       | <0.50                      | ----                     |      |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                   | ----                     |      |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                  | ----                     |      |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                   | ----                     |      |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                   | ----                     |      |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.0102                    | 0.00880                    | 0.00214                    | <0.00030                   | ----                     |      |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                   | ----                     |      |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000959 <sup>&lt;T</sup> | 0.000568 <sup>&lt;T</sup>  | 0.000048 <sup>&lt;T</sup>  | <0.000010                  | ----                     |      |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00129                   | 0.00128                    | 0.00064                    | <0.00050                   | ----                     |      |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0124                    | <0.0030                    | 0.0034 <sup>&lt;T</sup>    | <0.0030                    | ----                     |      |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00032                   | 0.00040                    | <0.00020                   | <0.00020                   | ----                     |      |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                            |                          |      |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0218                    | 0.0222                     | 0.0552                     | <0.0010                    | ----                     |      |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                   | ----                     |      |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00078                   | 0.00066                    | 0.00080                    | <0.00010                   | ----                     |      |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0158                    | 0.0164                     | 0.00968                    | <0.00010                   | ----                     |      |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                  | ----                     |      |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                  | ----                     |      |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.011                     | 0.013                      | <0.010                     | <0.010                     | ----                     |      |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000062                 | <0.0000050                 | <0.0000050                 | <0.0000050                 | ----                     |      |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 39.8                      | 38.7                       | 20.5                       | <0.050                     | ----                     |      |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                  | ----                     |      |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                   | ----                     |      |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                  | 0.00010                    | 0.00020                    | <0.00010                   | ----                     |      |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00108                   | 0.00072                    | 0.00027                    | <0.00020                   | ----                     |      |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.274                     | 0.345                      | 0.540                      | <0.010                     | ----                     |      |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000121                  | 0.000051                   | 0.000075                   | <0.000050                  | ----                     |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                       |            |            |           |      | Client sample ID | SW25_SW_202<br>40102<br>SW | SW20_SW_202<br>40102<br>SW | SW02_SW_202<br>40102<br>SW | TB_SW_20240<br>102<br>SW | ---- |
|---------------------------------------|------------|------------|-----------|------|------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Client sampling date / time           |            |            |           |      |                  | 02-Jan-2024<br>14:35       | 02-Jan-2024<br>15:30       | 02-Jan-2024<br>16:10       | 04-Jan-2024<br>17:44     | ---- |
| Analyte                               | CAS Number | Method/Lab | LOR       | Unit | TY2400135-007    | TY2400135-008              | TY2400135-009              | TY2400135-010              | -----                    |      |
|                                       |            |            |           |      | Result           | Result                     | Result                     | Result                     | ----                     |      |
| Dissolved Metals                      |            |            |           |      |                  |                            |                            |                            |                          |      |
| Lithium, dissolved                    | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0047           | 0.0070                     | 0.0028                     | <0.0010                    |                          | ---- |
| Magnesium, dissolved                  | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 13.8             | 16.2                       | 8.14                       | <0.0050                    |                          | ---- |
| Manganese, dissolved                  | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0106           | 0.00808                    | 0.160                      | <0.00010                   |                          | ---- |
| Mercury, dissolved                    | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050       | <0.0000050                 | <0.0000050                 | <0.0000050                 |                          | ---- |
| Molybdenum, dissolved                 | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000335         | 0.000346                   | <0.000050                  | <0.000050                  |                          | ---- |
| Nickel, dissolved                     | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00086          | 0.00118                    | 0.00056                    | <0.00050                   |                          | ---- |
| Phosphorus, dissolved                 | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050           | <0.050                     | <0.050                     | <0.050                     |                          | ---- |
| Potassium, dissolved                  | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.68             | 1.96                       | 0.791                      | <0.050                     |                          | ---- |
| Rubidium, dissolved                   | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00148          | 0.00170                    | 0.00183                    | <0.00020                   |                          | ---- |
| Selenium, dissolved                   | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000129         | 0.000165                   | 0.000159                   | <0.000050                  |                          | ---- |
| Silicon, dissolved                    | 7440-21-3  | E421/TY    | 0.050     | mg/L | 4.76             | 6.78                       | 7.46                       | <0.050                     |                          | ---- |
| Silver, dissolved                     | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010        | <0.000010                  | <0.000010                  | <0.000010                  |                          | ---- |
| Sodium, dissolved                     | 7440-23-5  | E421/TY    | 0.050     | mg/L | 4.30             | 15.1                       | 1.14                       | <0.050                     |                          | ---- |
| Strontium, dissolved                  | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0844           | 0.0925                     | 0.0334                     | <0.00020                   |                          | ---- |
| Sulfur, dissolved                     | 7704-34-9  | E421/TY    | 0.50      | mg/L | 4.37             | 3.60                       | 0.54                       | <0.50                      |                          | ---- |
| Tellurium, dissolved                  | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020         | <0.00020                   | <0.00020                   | <0.00020                   |                          | ---- |
| Thallium, dissolved                   | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010        | <0.000010                  | <0.000010                  | <0.000010                  |                          | ---- |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                   | <0.00010                   | <0.00010                   |                          | ---- |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                   | <0.00010                   | <0.00010                   |                          | ---- |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00193          | 0.00193                    | 0.00124                    | <0.00030                   |                          | ---- |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                   | <0.00010                   | <0.00010                   |                          | ---- |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000936         | 0.000553                   | 0.000046                   | <0.000010                  |                          | ---- |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050         | <0.00050                   | <0.00050                   | <0.00050                   |                          | ---- |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0066           | 0.0016                     | 0.0027                     | <0.0010                    |                          | ---- |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030         | 0.00033                    | <0.00030                   | <0.00030                   |                          | ---- |
| Dissolved mercury filtration location | ----       | EP509/WT   | -         | -    | Laboratory       | Laboratory                 | Laboratory                 | Field                      |                          | ---- |
| Dissolved metals filtration location  | ----       | EP421/TY   | -         | -    | Laboratory       | Laboratory                 | Laboratory                 | Laboratory                 |                          | ---- |
| Aggregate Organics                    |            |            |           |      |                  |                            |                            |                            |                          |      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0       | mg/L | <2.0             | <2.0                       | <2.0                       | <2.0                       |                          | ---- |



Analytical Results

|                                              |            |            |       |      |                  |                            |                            |                            |                          |      |
|----------------------------------------------|------------|------------|-------|------|------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW25_SW_202<br>40102<br>SW | SW20_SW_202<br>40102<br>SW | SW02_SW_202<br>40102<br>SW | TB_SW_20240<br>102<br>SW | ---- |
| Client sampling date / time                  |            |            |       |      |                  | 02-Jan-2024<br>14:35       | 02-Jan-2024<br>15:30       | 02-Jan-2024<br>16:10       | 04-Jan-2024<br>17:44     | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2400135-007    | TY2400135-008              | TY2400135-009              | TY2400135-010              | -----                    |      |
|                                              |            |            |       |      | Result           | Result                     | Result                     | Result                     | ----                     |      |
| Aggregate Organics                           |            |            |       |      |                  |                            |                            |                            |                          |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 70               | 73                         | 116                        | <10                        | ----                     |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | <1.0             | <1.0                       | <1.0                       | <1.0                       | ----                     |      |
| Radiological Parameters                      |            |            |       |      |                  |                            |                            |                            |                          |      |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | ----             | <0.005                     | ----                       | ----                       | ----                     |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                          |            |              |        |          |                             |                             |       |       |       |      |
|------------------------------------------|------------|--------------|--------|----------|-----------------------------|-----------------------------|-------|-------|-------|------|
| Sub-Matrix: Water<br>(Matrix: Water)     |            |              |        |          | Client sample ID            | SW29A_SW_20<br>240102<br>SW | ----  | ----  | ----  | ---- |
|                                          |            |              |        |          | Client sampling date / time | 02-Jan-2024<br>11:45        | ----  | ----  | ----  | ---- |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2400135-004               | -----                       | ----- | ----- | ----- |      |
|                                          |            |              |        |          | Result                      | ----                        | ----  | ----  | ----  |      |
| Field Tests                              |            |              |        |          |                             |                             |       |       |       |      |
| Oxygen, dissolved, field                 | ----       | EF001/TY     | 0.01   | mg/L     | 6.27                        | ----                        | ----  | ----  | ----  |      |
| pH, field                                | ----       | EF001/TY     | 0.10   | pH units | 6.99                        | ----                        | ----  | ----  | ----  |      |
| Temperature, field                       | ----       | EF001/TY     | 0.10   | °C       | 0.48                        | ----                        | ----  | ----  | ----  |      |
| Physical Tests                           |            |              |        |          |                             |                             |       |       |       |      |
| Acidity (as CaCO3)                       | ----       | E283/TY      | 2.0    | mg/L     | 9.9                         | ----                        | ----  | ----  | ----  |      |
| Colour, true                             | ----       | E329-L/TY    | 2.0    | CU       | 52.6                        | ----                        | ----  | ----  | ----  |      |
| Conductivity                             | ----       | E100/TY      | 1.0    | µS/cm    | 261                         | ----                        | ----  | ----  | ----  |      |
| Hardness (as CaCO3), dissolved           | ----       | EC100/TY     | 0.50   | mg/L     | 143                         | ----                        | ----  | ----  | ----  |      |
| pH                                       | ----       | E108/TY      | 0.10   | pH units | 7.66                        | ----                        | ----  | ----  | ----  |      |
| Solids, total dissolved [TDS]            | ----       | E162/TY      | 10     | mg/L     | 180                         | ----                        | ----  | ----  | ----  |      |
| Solids, total suspended [TSS]            | ----       | E160/TY      | 3.0    | mg/L     | <3.0                        | ----                        | ----  | ----  | ----  |      |
| Turbidity                                | ----       | E121/TY      | 0.10   | NTU      | 3.25                        | ----                        | ----  | ----  | ----  |      |
| Alkalinity, total (as CaCO3)             | ----       | E290/TY      | 2.0    | mg/L     | 152                         | ----                        | ----  | ----  | ----  |      |
| Anions and Nutrients                     |            |              |        |          |                             |                             |       |       |       |      |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0091                      | ----                        | ----  | ----  | ----  |      |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                     | ----                        | ----  | ----  | ----  |      |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 0.94                        | ----                        | ----  | ----  | ----  |      |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.027                       | ----                        | ----  | ----  | ----  |      |
| Kjeldahl nitrogen, total [TKN]           | ----       | E318/TY      | 0.050  | mg/L     | 0.859                       | ----                        | ----  | ----  | ----  |      |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.032                       | ----                        | ----  | ----  | ----  |      |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                      | ----                        | ----  | ----  | ----  |      |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0034                      | ----                        | ----  | ----  | ----  |      |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 4.61                        | ----                        | ----  | ----  | ----  |      |
| Cyanides                                 |            |              |        |          |                             |                             |       |       |       |      |
| Cyanide, free                            | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                     | ----                        | ----  | ----  | ----  |      |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                     | ----                        | ----  | ----  | ----  |      |
| Cyanide, weak acid dissociable           | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                     | ----                        | ----  | ----  | ----  |      |
| Organic / Inorganic Carbon               |            |              |        |          |                             |                             |       |       |       |      |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT    | 0.50   | mg/L     | 21.7                        | ----                        | ----  | ----  | ----  |      |



Analytical Results

|                                      |            |            |           |      |                  |                             |       |       |       |       |
|--------------------------------------|------------|------------|-----------|------|------------------|-----------------------------|-------|-------|-------|-------|
| Sub-Matrix: Water<br>(Matrix: Water) |            |            |           |      | Client sample ID | SW29A_SW_20<br>240102<br>SW | ----  | ----  | ----  | ----  |
| Client sampling date / time          |            |            |           |      |                  | 02-Jan-2024<br>11:45        | ----  | ----  | ----  | ----  |
| Analyte                              | CAS Number | Method/Lab | LOR       | Unit | TY2400135-004    | Result                      | ----- | ----- | ----- | ----- |
| Organic / Inorganic Carbon           |            |            |           |      |                  |                             |       |       |       |       |
| Carbon, total organic [TOC]          | ----       | E355-L/WT  | 0.50      | mg/L | 22.0             | ----                        | ----  | ----  | ----  | ----  |
| Total Metals                         |            |            |           |      |                  |                             |       |       |       |       |
| Aluminum, total                      | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0655           | ----                        | ----  | ----  | ----  | ----  |
| Antimony, total                      | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010         | ----                        | ----  | ----  | ----  | ----  |
| Arsenic, total                       | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00067          | ----                        | ----  | ----  | ----  | ----  |
| Barium, total                        | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0134           | ----                        | ----  | ----  | ----  | ----  |
| Beryllium, total                     | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020        | ----                        | ----  | ----  | ----  | ----  |
| Bismuth, total                       | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050        | ----                        | ----  | ----  | ----  | ----  |
| Boron, total                         | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010           | ----                        | ----  | ----  | ----  | ----  |
| Cadmium, total                       | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050       | ----                        | ----  | ----  | ----  | ----  |
| Calcium, total                       | 7440-70-2  | E420/TY    | 0.050     | mg/L | 32.5             | ----                        | ----  | ----  | ----  | ----  |
| Cesium, total                        | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000012         | ----                        | ----  | ----  | ----  | ----  |
| Chromium, total                      | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050         | ----                        | ----  | ----  | ----  | ----  |
| Cobalt, total                        | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00029          | ----                        | ----  | ----  | ----  | ----  |
| Copper, total                        | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00314          | ----                        | ----  | ----  | ----  | ----  |
| Iron, total                          | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.430            | ----                        | ----  | ----  | ----  | ----  |
| Lead, total                          | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000088         | ----                        | ----  | ----  | ----  | ----  |
| Lithium, total                       | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0035           | ----                        | ----  | ----  | ----  | ----  |
| Magnesium, total                     | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 14.4             | ----                        | ----  | ----  | ----  | ----  |
| Manganese, total                     | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0710           | ----                        | ----  | ----  | ----  | ----  |
| Mercury, total                       | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050       | ----                        | ----  | ----  | ----  | ----  |
| Molybdenum, total                    | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000211         | ----                        | ----  | ----  | ----  | ----  |
| Nickel, total                        | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00106          | ----                        | ----  | ----  | ----  | ----  |
| Phosphorus, total                    | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050           | ----                        | ----  | ----  | ----  | ----  |
| Potassium, total                     | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.11             | ----                        | ----  | ----  | ----  | ----  |
| Rubidium, total                      | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00128          | ----                        | ----  | ----  | ----  | ----  |
| Selenium, total                      | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000124         | ----                        | ----  | ----  | ----  | ----  |
| Silicon, total                       | 7440-21-3  | E420/TY    | 0.10      | mg/L | 6.59             | ----                        | ----  | ----  | ----  | ----  |
| Silver, total                        | 7440-22-4  | E420/TY    | 0.000010  | mg/L | 0.000123         | ----                        | ----  | ----  | ----  | ----  |



Analytical Results

|                                      |            |            |           |      |                         |                             |       |       |       |       |
|--------------------------------------|------------|------------|-----------|------|-------------------------|-----------------------------|-------|-------|-------|-------|
| Sub-Matrix: Water<br>(Matrix: Water) |            |            |           |      | Client sample ID        | SW29A_SW_20<br>240102<br>SW | ----  | ----  | ----  | ----  |
| Client sampling date / time          |            |            |           |      |                         | 02-Jan-2024<br>11:45        | ----  | ----  | ----  | ----  |
| Analyte                              | CAS Number | Method/Lab | LOR       | Unit | TY2400135-004           | Result                      | ----- | ----- | ----- | ----- |
| Total Metals                         |            |            |           |      |                         |                             |       |       |       |       |
| Sodium, total                        | 7440-23-5  | E420/TY    | 0.050     | mg/L | 2.18                    | ----                        | ----  | ----  | ----  | ----  |
| Strontium, total                     | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0680                  | ----                        | ----  | ----  | ----  | ----  |
| Sulfur, total                        | 7704-34-9  | E420/TY    | 0.50      | mg/L | 2.17                    | ----                        | ----  | ----  | ----  | ----  |
| Tellurium, total                     | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                | ----                        | ----  | ----  | ----  | ----  |
| Thallium, total                      | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010               | ----                        | ----  | ----  | ----  | ----  |
| Thorium, total                       | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                | ----                        | ----  | ----  | ----  | ----  |
| Tin, total                           | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                | ----                        | ----  | ----  | ----  | ----  |
| Titanium, total                      | 7440-32-6  | E420/TY    | 0.00030   | mg/L | <0.00276 <sup>DLM</sup> | ----                        | ----  | ----  | ----  | ----  |
| Tungsten, total                      | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                | ----                        | ----  | ----  | ----  | ----  |
| Uranium, total                       | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000295                | ----                        | ----  | ----  | ----  | ----  |
| Vanadium, total                      | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00076                 | ----                        | ----  | ----  | ----  | ----  |
| Zinc, total                          | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                 | ----                        | ----  | ----  | ----  | ----  |
| Zirconium, total                     | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                | ----                        | ----  | ----  | ----  | ----  |
| Dissolved Metals                     |            |            |           |      |                         |                             |       |       |       |       |
| Aluminum, dissolved                  | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0082                  | ----                        | ----  | ----  | ----  | ----  |
| Antimony, dissolved                  | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                | ----                        | ----  | ----  | ----  | ----  |
| Arsenic, dissolved                   | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00056                 | ----                        | ----  | ----  | ----  | ----  |
| Barium, dissolved                    | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0122                  | ----                        | ----  | ----  | ----  | ----  |
| Beryllium, dissolved                 | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020               | ----                        | ----  | ----  | ----  | ----  |
| Bismuth, dissolved                   | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050               | ----                        | ----  | ----  | ----  | ----  |
| Boron, dissolved                     | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                  | ----                        | ----  | ----  | ----  | ----  |
| Cadmium, dissolved                   | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050              | ----                        | ----  | ----  | ----  | ----  |
| Calcium, dissolved                   | 7440-70-2  | E421/TY    | 0.050     | mg/L | 33.4                    | ----                        | ----  | ----  | ----  | ----  |
| Cesium, dissolved                    | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010               | ----                        | ----  | ----  | ----  | ----  |
| Chromium, dissolved                  | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                | ----                        | ----  | ----  | ----  | ----  |
| Cobalt, dissolved                    | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                | ----                        | ----  | ----  | ----  | ----  |
| Copper, dissolved                    | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00079                 | ----                        | ----  | ----  | ----  | ----  |
| Iron, dissolved                      | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.235                   | ----                        | ----  | ----  | ----  | ----  |
| Lead, dissolved                      | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050               | ----                        | ----  | ----  | ----  | ----  |



Analytical Results

|                                       |            |            |           |      |                      |                             |       |       |       |      |
|---------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|-------|-------|-------|------|
| Sub-Matrix: Water<br>(Matrix: Water)  |            |            |           |      | Client sample ID     | SW29A_SW_20<br>240102<br>SW | ----  | ----  | ----  | ---- |
| Client sampling date / time           |            |            |           |      | 02-Jan-2024<br>11:45 | ----                        | ----  | ----  | ----  |      |
| Analyte                               | CAS Number | Method/Lab | LOR       | Unit | TY2400135-004        | -----                       | ----- | ----- | ----- |      |
|                                       |            |            |           |      | Result               | ----                        | ----  | ----  | ----  |      |
| Dissolved Metals                      |            |            |           |      |                      |                             |       |       |       |      |
| Lithium, dissolved                    | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0047               | ----                        | ----  | ----  | ----  |      |
| Magnesium, dissolved                  | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 14.4                 | ----                        | ----  | ----  | ----  |      |
| Manganese, dissolved                  | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0110               | ----                        | ----  | ----  | ----  |      |
| Mercury, dissolved                    | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | ----                        | ----  | ----  | ----  |      |
| Molybdenum, dissolved                 | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000190             | ----                        | ----  | ----  | ----  |      |
| Nickel, dissolved                     | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00086              | ----                        | ----  | ----  | ----  |      |
| Phosphorus, dissolved                 | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | ----                        | ----  | ----  | ----  |      |
| Potassium, dissolved                  | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.07                 | ----                        | ----  | ----  | ----  |      |
| Rubidium, dissolved                   | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00115              | ----                        | ----  | ----  | ----  |      |
| Selenium, dissolved                   | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000145             | ----                        | ----  | ----  | ----  |      |
| Silicon, dissolved                    | 7440-21-3  | E421/TY    | 0.050     | mg/L | 6.27                 | ----                        | ----  | ----  | ----  |      |
| Silver, dissolved                     | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | ----                        | ----  | ----  | ----  |      |
| Sodium, dissolved                     | 7440-23-5  | E421/TY    | 0.050     | mg/L | 2.22                 | ----                        | ----  | ----  | ----  |      |
| Strontium, dissolved                  | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0656               | ----                        | ----  | ----  | ----  |      |
| Sulfur, dissolved                     | 7704-34-9  | E421/TY    | 0.50      | mg/L | 1.96                 | ----                        | ----  | ----  | ----  |      |
| Tellurium, dissolved                  | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | ----                        | ----  | ----  | ----  |      |
| Thallium, dissolved                   | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | ----                        | ----  | ----  | ----  |      |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | ----                        | ----  | ----  | ----  |      |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | ----                        | ----  | ----  | ----  |      |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00034              | ----                        | ----  | ----  | ----  |      |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | ----                        | ----  | ----  | ----  |      |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000296             | ----                        | ----  | ----  | ----  |      |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | ----                        | ----  | ----  | ----  |      |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0010               | ----                        | ----  | ----  | ----  |      |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | ----                        | ----  | ----  | ----  |      |
| Dissolved mercury filtration location | ----       | EP509/WT   | -         | -    | Laboratory           | ----                        | ----  | ----  | ----  |      |
| Dissolved metals filtration location  | ----       | EP421/TY   | -         | -    | Laboratory           | ----                        | ----  | ----  | ----  |      |
| Aggregate Organics                    |            |            |           |      |                      |                             |       |       |       |      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0       | mg/L | <2.0                 | ----                        | ----  | ----  | ----  |      |





Analytical Results

|                                      |            |            |     |      |                             |                             |       |       |       |      |
|--------------------------------------|------------|------------|-----|------|-----------------------------|-----------------------------|-------|-------|-------|------|
| Sub-Matrix: Water<br>(Matrix: Water) |            |            |     |      | Client sample ID            | SW29A_SW_20<br>240102<br>SW | ----  | ----  | ----  | ---- |
|                                      |            |            |     |      | Client sampling date / time | 02-Jan-2024<br>11:45        | ----  | ----  | ----  | ---- |
| Analyte                              | CAS Number | Method/Lab | LOR | Unit | TY2400135-004               | -----                       | ----- | ----- | ----- |      |
|                                      |            |            |     |      | Result                      | ----                        | ----  | ----  | ----  |      |
| Aggregate Organics                   |            |            |     |      |                             |                             |       |       |       |      |
| Chemical oxygen demand [COD]         | ----       | E559-L/TY  | 10  | mg/L | 62                          | ----                        | ----  | ----  | ----  |      |
| Oil & grease (gravimetric)           | ----       | E567-L/WT  | 1.0 | mg/L | <1.0                        | ----                        | ----  | ----  | ----  |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

SRC Group # 2024-514

Jan 22, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Jan-12-2024

Client P.O.: TY2400135

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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

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- \* 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 # 2024-514**

Jan 22, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2024003212**  
Date Sampled: **Jan 02, 2024**  
Sample Matrix: **WATER**  
Description: **01/02/2024 14:30 SW20\_SW\_20240102 TY2400135-008**

Client PO #: **TY2400135**  
Date Received: **Jan 12, 2024**

| 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 8 °C upon receipt.

SRC Group # 2024-514

Jan 22, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

**COC No: ALS-452957395**

Cooler No. of

Work Order Reference  
**TY2400135**



Telephone : +1 807 623 6463

[illegible]

| Additional Comments/Special Instructions: |                                   | RELINQUISHED BY / AFFILIATION          | Date Time | ACCEPTED BY / AFFILIATION  | Date Time |
|-------------------------------------------|-----------------------------------|----------------------------------------|-----------|----------------------------|-----------|
|                                           |                                   |                                        |           |                            |           |
|                                           |                                   |                                        |           |                            |           |
|                                           |                                   | SHIPPING METHOD: (mark as appropriate) |           | SAMPLER NAME AND SIGNATURE | Date Time |
| Email Report To :                         | rainyriver.labresults@newgold.com |                                        |           |                            |           |
| Email Invoice To :                        | rainyriver.accounts1@newgold.com  |                                        |           |                            |           |

|                   |                  | Field Dissolved Oxygen | Field pH | Field Temp |
|-------------------|------------------|------------------------|----------|------------|
| Sample Code       | Date and Time    |                        |          |            |
| SW02_SW_20240102  | 1-2-24 16:10     | 7.06                   | 6.79     | 0.29       |
| SW03_SW_20240102  | 1-2-24 10:50     | 9.04                   | 7.13     | 0.27       |
| SW10_SW_20240102  | 1-2-24 10:00     | 11.34                  | 7.33     | 0.16       |
| SW20_SW_20240102  | 1-2-24 15:30     | 8.22                   | 7.36     | 0.32       |
| SW25_SW_20240102  | 1-2-24 14:35     | 9.48                   | 7.81     | 0.2        |
| SW26_SW_20240102  | 1-2-24 13:55     | 11.26                  | 7.46     | 0.13       |
| TB_SW_20240102    | 2024-01-04 8:44  |                        |          |            |
| FB_SW_20240102    | 2024-01-02 12:00 |                        |          |            |
| SW28A_SW_20240102 | 1-2-24 9:35      | 12.27                  | 7.45     | 0.15       |
| SW29A_SW_20240102 | 1-3-24 0:00      | 6.27                   | 6.99     | 0.48       |

# Intake and Login Verification Form

| SAMPLE INTAKE                                                                      |                                                                                     |                                     |                                 |                             |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|---------------------------------|-----------------------------|
| Priority/Emergency Service Requested                                               | YES                                                                                 | <input checked="" type="radio"/> NO |                                 |                             |
| Time Sensitive Hold Time                                                           | YES                                                                                 | <input checked="" type="radio"/> NO |                                 |                             |
| Client:                                                                            | New Gold                                                                            |                                     |                                 |                             |
| SAMPLE RECEIPT INFORMATION                                                         |                                                                                     |                                     |                                 |                             |
| Mode of Delivery:                                                                  | <input checked="" type="radio"/> Courier                                            | <input type="radio"/> Drop Off      |                                 |                             |
| Courier                                                                            | Manitowish                                                                          |                                     |                                 |                             |
| Waybill Number                                                                     | 3302857607                                                                          |                                     |                                 |                             |
| Temperature                                                                        | 7.6, 3.9, 2.4, 3.1                                                                  | Cooler Count                        | 4                               |                             |
| Cooling Method                                                                     | <input checked="" type="radio"/> None                                               | <input type="radio"/> Ice           | <input type="radio"/> Ice Packs |                             |
| SAMPLE MATRIX/BOTTLE INFORMATION                                                   |                                                                                     |                                     |                                 |                             |
| Matrix:                                                                            | <input checked="" type="radio"/> Water                                              | <input type="radio"/> Soil          | <input type="radio"/> Air       | <input type="radio"/> Biota |
| DW Schedule 24 Bottles Correct?                                                    |                                                                                     | Yes                                 | No                              |                             |
| DW Metals pH Check <2                                                              |                                                                                     | Yes                                 | No                              |                             |
| Regulation Circled, Works # present                                                | Yes                                                                                 | No - Reject?                        |                                 |                             |
| # of Bottles:                                                                      | Sample Count 10                                                                     |                                     |                                 |                             |
| Green/white                                                                        | 10 radium, 10 BOD                                                                   |                                     |                                 |                             |
| Purple/white                                                                       | 10 nit, 10 TOC, 10 DOC                                                              |                                     |                                 |                             |
| Warm red/white                                                                     | 10 tot met, 10 diss met                                                             |                                     |                                 |                             |
| Yellow/black                                                                       | 10 tot Hg, 10 diss Hg, 200066                                                       |                                     |                                 |                             |
| Light blue/white                                                                   |                                                                                     |                                     |                                 |                             |
| Orange/black                                                                       |                                                                                     |                                     |                                 |                             |
| Others (detail)                                                                    | 1 Radium<br>10 cyanide                                                              |                                     |                                 |                             |
| Comments on Samples and Bottles:<br>F8 has the Radium                              |                                                                                     |                                     |                                 |                             |
| Samples Requiring Preservation or Filtering:<br>DOC, diss met, diss Hg - DFP @ lab |                                                                                     |                                     |                                 |                             |
| Layout Staff Initials                                                              |  |                                     |                                 |                             |
| Date and Time of Layout                                                            | Jan 5 2024 9:38                                                                     |                                     |                                 |                             |

| ACCOUNT INFO VERIFICATION                                        |                                                                                       |                                           |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------|
| Priority/Emergency Service Requested                             | YES                                                                                   | <input checked="" type="radio"/> NO       |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |                                                                                       |                                           |
| Client                                                           | <input checked="" type="radio"/> Work Contact                                         | <input checked="" type="radio"/> Quote    |
| RECEIPT DETAIL                                                   |                                                                                       |                                           |
| Project                                                          | <input checked="" type="radio"/> PO                                                   | Site/LSD <input checked="" type="radio"/> |
| Overall Description Entered                                      | Yes                                                                                   | <input checked="" type="radio"/> NA       |
| Received date/time as per COC                                    |                                                                                       |                                           |
| Recipients match CoC or Sample Remarks                           | <input checked="" type="radio"/> Yes                                                  | No                                        |
| Billing Instruction added to remarks                             | <input checked="" type="radio"/> Yes                                                  | NA                                        |
| Sample Remarks/Specification Doc checked                         | <input checked="" type="radio"/>                                                      |                                           |
| Submission Issues communicated                                   | Yes                                                                                   | <input checked="" type="radio"/> NA       |
| Sample Info communicated via Remarks                             | Yes                                                                                   | <input checked="" type="radio"/> NA       |
| VERIFICATION CHECKLIST                                           |                                                                                       |                                           |
| Planned Event Submission                                         | <input checked="" type="radio"/> Yes                                                  | No                                        |
| Sample Name entered as per CoC                                   | <input checked="" type="radio"/>                                                      |                                           |
| Sampling Date and time entered as per CoC                        | <input checked="" type="radio"/>                                                      |                                           |
| Containers selected in layout order                              | <input checked="" type="radio"/>                                                      |                                           |
| Sales items entered from QUOTE ONLY (and/or verified as correct) | <input checked="" type="radio"/>                                                      |                                           |
| Field Data/EC298A removed if not on COC                          | Yes                                                                                   | <input checked="" type="radio"/> NA       |
| Bottle Allocation Verified                                       | <input checked="" type="radio"/>                                                      |                                           |
| Guideline added or auto-allocated                                | <input checked="" type="radio"/>                                                      |                                           |
| Due dates updated                                                | <input checked="" type="radio"/>                                                      |                                           |
| VALIDATION                                                       |                                                                                       |                                           |
| Validation errors resolved?                                      | <input checked="" type="radio"/> Yes                                                  | No                                        |
| Internal Sublet CoC created                                      | <input checked="" type="radio"/> Yes                                                  | NA                                        |
| Login Comments:                                                  |                                                                                       |                                           |
|                                                                  |                                                                                       |                                           |
| Login Staff Initials:                                            |  |                                           |



## CERTIFICATE OF ANALYSIS

|                         |                                                |                         |                                                       |
|-------------------------|------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2400221                                    | Page                    | : 1 of 7                                              |
| Client                  | : New Gold Inc. (Rainy River)                  | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell    | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0     | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                 | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                | Date Samples Received   | : 10-Jan-2024 09:06                                   |
| PO                      | : 4700002620                                   | Date Analysis Commenced | : 10-Jan-2024                                         |
| C-O-C number            | : ----                                         | Issue Date              | : 23-Jan-2024 13:11                                   |
| Sampler                 | : ----                                         |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                  |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Picka Project |                         |                                                       |
| No. of samples received | : 5                                            |                         |                                                       |
| No. of samples analysed | : 5                                            |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                                    | Laboratory Department                            |
|----------------------|---------------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Account Manager                             | External Subcontracting, Saskatoon, Saskatchewan |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Metals, Thunder Bay, Ontario                     |
| Daron Mooney         | Laboratory Assistant                        | Administration, Thunder Bay, Ontario             |
| Jocelyn Kennedy      | Department Manager - Semi-Volatile Organics | Organics, Waterloo, Ontario                      |
| Julie Ruoho          | Teamleader Wet Chem                         | Inorganics, Thunder Bay, Ontario                 |
| Nik Perkio           | Inorganics Analyst                          | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Inorganics Analyst                          | Metals, Waterloo, Ontario                        |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                         |
|-----------|-----------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution. |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                          |            |              |        |          | SW22A_SW_20<br>240102<br>SW | SW06_SW_202<br>40102<br>SW | SW27_SW_202<br>40102<br>SW | SW21A_SW_20<br>240102<br>SW | SW17_SW_202<br>40102<br>SW |
|------------------------------------------|------------|--------------|--------|----------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time              |            |              |        |          | 04-Jan-2024<br>11:25        | 04-Jan-2024<br>12:00       | 04-Jan-2024<br>15:10       | 04-Jan-2024<br>15:20        | 04-Jan-2024<br>11:25       |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2400221-001               | TY2400221-002              | TY2400221-003              | TY2400221-004               | TY2400221-005              |
|                                          |            |              |        |          | Result                      | Result                     | Result                     | Result                      | Result                     |
| Field Tests                              |            |              |        |          |                             |                            |                            |                             |                            |
| Oxygen, dissolved, field                 | ----       | EF001/TY     | 0.01   | mg/L     | 5.22                        | 5.22                       | 8.93                       | 5.31                        | 11.7                       |
| pH, field                                | ----       | EF001/TY     | 0.10   | pH units | 7.57                        | 7.57                       | 7.91                       | 7.57                        | 7.49                       |
| Temperature, field                       | ----       | EF001/TY     | 0.10   | °C       | -0.11                       | -0.11                      | -0.06                      | <0.10                       | -0.20                      |
| Physical Tests                           |            |              |        |          |                             |                            |                            |                             |                            |
| Acidity (as CaCO3)                       | ----       | E283/TY      | 2.0    | mg/L     | 4.9                         | 4.9                        | 2.1                        | 4.9                         | 2.6                        |
| Colour, true                             | ----       | E329-L/TY    | 2.0    | CU       | 82.6                        | 83.4                       | 92.4                       | 83.2                        | 110                        |
| Conductivity                             | ----       | E100/TY      | 1.0    | µS/cm    | 377                         | 380                        | 395                        | 369                         | 114                        |
| Hardness (as CaCO3), dissolved           | ----       | EC100/TY     | 0.50   | mg/L     | 183                         | 183                        | 201                        | 174                         | 54.5                       |
| pH                                       | ----       | E108/TY      | 0.10   | pH units | 7.85                        | 7.84                       | 8.04                       | 7.84                        | 7.64                       |
| Solids, total dissolved [TDS]            | ----       | E162/TY      | 10     | mg/L     | 253                         | 244                        | 263                        | 244                         | 111                        |
| Solids, total suspended [TSS]            | ----       | E160/TY      | 3.0    | mg/L     | 4.7                         | 3.1                        | <3.0                       | <3.0                        | 5.9                        |
| Turbidity                                | ----       | E121/TY      | 0.10   | NTU      | 6.17                        | 6.08                       | 7.49                       | 4.47                        | 12.1                       |
| Alkalinity, total (as CaCO3)             | ----       | E290/TY      | 2.0    | mg/L     | 185                         | 178                        | 204                        | 168                         | 45.5                       |
| Anions and Nutrients                     |            |              |        |          |                             |                            |                            |                             |                            |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0323 <sup>&lt;T</sup>     | 0.0307 <sup>&lt;T</sup>    | 0.0332 <sup>&lt;T</sup>    | 0.0319 <sup>&lt;T</sup>     | 0.0176 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                     | <0.0010                    | <0.0010                    | <0.0010                     | <0.0010                    |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 21.8                        | 21.6                       | 14.2                       | 22.8                        | 3.73                       |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.036                       | 0.038                      | 0.037                      | 0.040                       | <0.020                     |
| Kjeldahl nitrogen, total [TKN]           | ----       | E318/TY      | 0.050  | mg/L     | 1.03                        | 0.983                      | 0.845                      | 1.03                        | 0.834                      |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.038 <sup>&lt;T</sup>      | 0.041 <sup>&lt;T</sup>     | 0.023 <sup>&lt;T</sup>     | 0.040 <sup>&lt;T</sup>      | 0.225 <sup>&lt;T</sup>     |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                      | <0.010                     | <0.010                     | <0.010                      | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0270                      | 0.0267                     | 0.0030                     | 0.0308                      | 0.0048                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 10.4                        | 10.3                       | 19.0                       | 8.11                        | 6.00                       |
| Cyanides                                 |            |              |        |          |                             |                            |                            |                             |                            |
| Cyanide, free                            | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | 0.0029 <sup>&lt;T</sup>    | <0.0020                     | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Organic / Inorganic Carbon               |            |              |        |          |                             |                            |                            |                             |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                 |            |            |           |      | SW22A_SW_20<br>240102<br>SW | SW06_SW_202<br>40102<br>SW | SW27_SW_202<br>40102<br>SW | SW21A_SW_20<br>240102<br>SW | SW17_SW_202<br>40102<br>SW |
|---------------------------------|------------|------------|-----------|------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time     |            |            |           |      | 04-Jan-2024<br>11:25        | 04-Jan-2024<br>12:00       | 04-Jan-2024<br>15:10       | 04-Jan-2024<br>15:20        | 04-Jan-2024<br>11:25       |
| Analyte                         | CAS Number | Method/Lab | LOR       | Unit | TY2400221-001               | TY2400221-002              | TY2400221-003              | TY2400221-004               | TY2400221-005              |
|                                 |            |            |           |      | Result                      | Result                     | Result                     | Result                      | Result                     |
| Organic / Inorganic Carbon      |            |            |           |      |                             |                            |                            |                             |                            |
| Carbon, dissolved organic [DOC] | ----       | E358-L/WT  | 0.50      | mg/L | 24.7                        | 25.4                       | 25.9                       | 25.3                        | 23.9                       |
| Carbon, total organic [TOC]     | ----       | E355-L/WT  | 0.50      | mg/L | 25.5                        | 26.1                       | 26.4                       | 26.0                        | 25.3                       |
| Total Metals                    |            |            |           |      |                             |                            |                            |                             |                            |
| Aluminum, total                 | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.195                       | 0.199                      | 0.228                      | 0.138                       | 0.522                      |
| Antimony, total                 | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |
| Arsenic, total                  | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00081 <sup>&lt;T</sup>    | 0.00081 <sup>&lt;T</sup>   | 0.00094 <sup>&lt;T</sup>   | 0.00074 <sup>&lt;T</sup>    | 0.00071 <sup>&lt;T</sup>   |
| Barium, total                   | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0207                      | 0.0211                     | 0.0230                     | 0.0202                      | 0.0177                     |
| Beryllium, total                | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                   | <0.000020                  | 0.000022 <sup>&lt;T</sup>  | <0.000020                   | 0.000032 <sup>&lt;T</sup>  |
| Bismuth, total                  | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                  |
| Boron, total                    | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.017 <sup>&lt;T</sup>      | 0.016 <sup>&lt;T</sup>     | 0.015 <sup>&lt;T</sup>     | 0.017 <sup>&lt;T</sup>      | 0.010                      |
| Cadmium, total                  | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000053 <sup>&lt;T</sup>  | 0.0000084 <sup>&lt;T</sup> | 0.0000053 <sup>&lt;T</sup> | 0.0000074 <sup>&lt;T</sup>  | 0.0000200 <sup>&lt;T</sup> |
| Calcium, total                  | 7440-70-2  | E420/TY    | 0.050     | mg/L | 43.0                        | 44.6                       | 50.2                       | 41.2                        | 14.6                       |
| Cesium, total                   | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000021                    | 0.000020                   | 0.000029                   | 0.000013                    | 0.000068                   |
| Chromium, total                 | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00062 <sup>&lt;T</sup>    | 0.00055 <sup>&lt;T</sup>   | 0.00064 <sup>&lt;T</sup>   | <0.00050                    | 0.00156 <sup>&lt;T</sup>   |
| Cobalt, total                   | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00034 <sup>&lt;T</sup>    | 0.00036 <sup>&lt;T</sup>   | 0.00024 <sup>&lt;T</sup>   | 0.00034 <sup>&lt;T</sup>    | 0.00032 <sup>&lt;T</sup>   |
| Copper, total                   | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00124 <sup>&lt;T</sup>    | 0.00119 <sup>&lt;T</sup>   | 0.00141 <sup>&lt;T</sup>   | 0.00111 <sup>&lt;T</sup>    | 0.00162 <sup>&lt;T</sup>   |
| Iron, total                     | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.687                       | 0.707                      | 0.577                      | 0.677                       | 0.815                      |
| Lead, total                     | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000150 <sup>&lt;T</sup>   | 0.000146 <sup>&lt;T</sup>  | 0.000238 <sup>&lt;T</sup>  | 0.000117 <sup>&lt;T</sup>   | 0.000353 <sup>&lt;T</sup>  |
| Lithium, total                  | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0078 <sup>&lt;T</sup>     | 0.0079 <sup>&lt;T</sup>    | 0.0064 <sup>&lt;T</sup>    | 0.0085 <sup>&lt;T</sup>     | 0.0030 <sup>&lt;T</sup>    |
| Magnesium, total                | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 17.1                        | 17.1                       | 17.9                       | 16.5                        | 4.89                       |
| Manganese, total                | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.125                       | 0.124                      | 0.0804                     | 0.128                       | 0.0380                     |
| Mercury, total                  | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |
| Molybdenum, total               | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000753 <sup>&lt;T</sup>   | 0.000744 <sup>&lt;T</sup>  | 0.000447 <sup>&lt;T</sup>  | 0.000930 <sup>&lt;T</sup>   | 0.000515 <sup>&lt;T</sup>  |
| Nickel, total                   | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00152 <sup>&lt;T</sup>    | 0.00161 <sup>&lt;T</sup>   | 0.00131 <sup>&lt;T</sup>   | 0.00154 <sup>&lt;T</sup>    | 0.00154 <sup>&lt;T</sup>   |
| Phosphorus, total               | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                      | 0.058                      | <0.050                     | 0.055                       | <0.050                     |
| Potassium, total                | 7440-09-7  | E420/TY    | 0.050     | mg/L | 3.93                        | 3.81                       | 1.89                       | 4.09                        | 1.32                       |
| Rubidium, total                 | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00283                     | 0.00279                    | 0.00170                    | 0.00297                     | 0.00305                    |
| Selenium, total                 | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000183 <sup>&lt;T</sup>   | 0.000160 <sup>&lt;T</sup>  | 0.000170 <sup>&lt;T</sup>  | 0.000155 <sup>&lt;T</sup>   | 0.000173 <sup>&lt;T</sup>  |
| Silicon, total                  | 7440-21-3  | E420/TY    | 0.10      | mg/L | 6.33                        | 6.34                       | 5.48                       | 6.25                        | 4.62                       |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW22A_SW_20<br>240102<br>SW | SW06_SW_202<br>40102<br>SW | SW27_SW_202<br>40102<br>SW | SW21A_SW_20<br>240102<br>SW | SW17_SW_202<br>40102<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jan-2024<br>11:25      | 04-Jan-2024<br>12:00        | 04-Jan-2024<br>15:10       | 04-Jan-2024<br>15:20       | 04-Jan-2024<br>11:25        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2400221-001             | TY2400221-002               | TY2400221-003              | TY2400221-004              | TY2400221-005               |                            |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                     | Result                      |                            |
| Total Metals                                 |            |            |           |      |                           |                             |                            |                            |                             |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 9.02                      | 8.97                        | 5.80                       | 9.38                       | 4.00                        |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.101                     | 0.104                       | 0.114                      | 0.102                      | 0.0339                      |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 3.95                      | 3.97                        | 6.62                       | 3.21                       | 2.16                        |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                    |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00615                   | 0.00704                     | 0.00751                    | 0.00466                    | 0.0142                      |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000869 <sup>&lt;T</sup> | 0.000864 <sup>&lt;T</sup>   | 0.00139 <sup>&lt;T</sup>   | 0.000736 <sup>&lt;T</sup>  | 0.000187 <sup>&lt;T</sup>   |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00100                   | 0.00098                     | 0.00104                    | 0.00078                    | 0.00162                     |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0030                    | 0.0034 <sup>&lt;T</sup>     | 0.0100                     | <0.0030                    | 0.0047 <sup>&lt;T</sup>     |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00037                   | 0.00036                     | 0.00032                    | 0.00028                    | 0.00039                     |                            |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                            |                             |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0158                    | 0.0172                      | 0.0177                     | 0.0161                     | 0.0941                      |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00073                   | 0.00074                     | 0.00085                    | 0.00065                    | 0.00060                     |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0193                    | 0.0201                      | 0.0213                     | 0.0187                     | 0.0138                      |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                   | <0.000020                  | <0.000020                  | <0.000020                   |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                   |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.015                     | 0.015                       | 0.013                      | 0.016                      | <0.010                      |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000052                 | <0.0000050                  | <0.0000050                 | <0.0000050                 | 0.0000114                   |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 43.6                      | 43.9                        | 50.3                       | 40.9                       | 13.6                        |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                    | <0.00050                   | <0.00050                   | <0.00050                    |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00017                   | 0.00016                     | 0.00015                    | 0.00016                    | 0.00010                     |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00105                   | 0.00103                     | 0.00111                    | 0.00098                    | 0.00114                     |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.373                     | 0.386                       | 0.270                      | 0.407                      | 0.308                       |                            |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW22A_SW_20<br>240102<br>SW | SW06_SW_202<br>40102<br>SW | SW27_SW_202<br>40102<br>SW | SW21A_SW_20<br>240102<br>SW | SW17_SW_202<br>40102<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jan-2024<br>11:25 | 04-Jan-2024<br>12:00        | 04-Jan-2024<br>15:10       | 04-Jan-2024<br>15:20       | 04-Jan-2024<br>11:25        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2400221-001        | TY2400221-002               | TY2400221-003              | TY2400221-004              | TY2400221-005               |                            |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                     | Result                      |                            |
| Dissolved Metals                             |            |            |           |      |                      |                             |                            |                            |                             |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000054             | 0.000055                    | 0.000078                   | <0.000050                  | 0.000091                    |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0076               | 0.0079                      | 0.0064                     | 0.0083                     | 0.0020                      |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 18.0                 | 17.8                        | 18.3                       | 17.4                       | 4.98                        |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0346               | 0.0349                      | 0.0720                     | 0.0200                     | 0.0165                      |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                  |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000718             | 0.000741                    | 0.000413                   | 0.000791                   | 0.000192                    |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00138              | 0.00135                     | 0.00104                    | 0.00145                    | 0.00094                     |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                      | <0.050                     | <0.050                     | <0.050                      |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 4.01                 | 4.00                        | 1.90                       | 4.44                       | 1.24                        |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00250              | 0.00242                     | 0.00136                    | 0.00283                    | 0.00194                     |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000161             | 0.000156                    | 0.000168                   | 0.000128                   | 0.000126                    |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 6.03                 | 6.15                        | 5.26                       | 6.19                       | 3.84                        |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 9.29                 | 9.37                        | 6.02                       | 9.85                       | 4.01                        |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.105                | 0.103                       | 0.109                      | 0.101                      | 0.0348                      |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 3.99                 | 4.03                        | 7.00                       | 3.34                       | 2.35                        |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                    |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00156              | 0.00172                     | 0.00203                    | 0.00146                    | 0.00341                     |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000888             | 0.000867                    | 0.00142                    | 0.000720                   | 0.000164                    |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                    | <0.00050                   | <0.00050                   | 0.00057                     |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0015               | 0.0015                      | 0.0080                     | <0.0010                    | 0.0018                      |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                    | <0.00030                   | 0.00032                    | 0.00038                     |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                  | Laboratory                 | Laboratory                 | Laboratory                  |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                  | Laboratory                 | Laboratory                 | Laboratory                  |                            |
| Aggregate Organics                           |            |            |           |      |                      |                             |                            |                            |                             |                            |

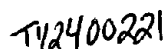


Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID     | SW22A_SW_20<br>240102<br>SW | SW06_SW_202<br>40102<br>SW | SW27_SW_202<br>40102<br>SW | SW21A_SW_20<br>240102<br>SW | SW17_SW_202<br>40102<br>SW |
|----------------------------------------------|------------|------------|-------|------|----------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |       |      | 04-Jan-2024<br>11:25 | 04-Jan-2024<br>12:00        | 04-Jan-2024<br>15:10       | 04-Jan-2024<br>15:20       | 04-Jan-2024<br>11:25        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2400221-001        | TY2400221-002               | TY2400221-003              | TY2400221-004              | TY2400221-005               |                            |
|                                              |            |            |       |      | Result               | Result                      | Result                     | Result                     | Result                      |                            |
| Aggregate Organics                           |            |            |       |      |                      |                             |                            |                            |                             |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0   | mg/L | <2.0                 | <2.0                        | <2.0                       | <2.0                       | <2.0                        |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 168                  | 73                          | 68                         | 70                         | 63                          |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | 1.0                  | 1.6                         | <1.0                       | <1.0                       | 1.0                         |                            |
| Radiological Parameters                      |            |            |       |      |                      |                             |                            |                            |                             |                            |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | <0.005               | ----                        | ----                       | ----                       | ----                        |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.



## CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

**COC No: ALS-452987566**

Cooler No. of

Environmental Division  
Thunder Bay

Work Order Reference

Work Order Reference  
**TY2400221**



Telephone : +1 807 623 6463

| <b>Site ID</b><br>Rainy River                                     |                   |                   |        |                  | <b>Turnaround Time</b><br>10 Business Days |                  |                 | Filtered          |          |                             |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------|-------------------|-------------------|--------|------------------|--------------------------------------------|------------------|-----------------|-------------------|----------|-----------------------------|--|--|--|--|--|--|--|--|--|
| <b>Site Address</b><br>1361 Roen Rd, Chapple, ON                  |                   |                   |        |                  | <b>Lab Name</b><br>ALS Thunder Bay         |                  |                 |                   | Preserve |                             |  |  |  |  |  |  |  |  |  |
| <b>Project Number</b>                                             |                   |                   |        |                  | <b>Lab PM</b><br>Christine Paradis         |                  |                 | Analysis          |          | NG-SW-P-TB<br>RA226-MMER-BE |  |  |  |  |  |  |  |  |  |
| <b>Project Name</b><br>Rainy River Mine                           |                   |                   |        |                  | <b>Lab Phone/Fax</b>                       |                  |                 |                   |          |                             |  |  |  |  |  |  |  |  |  |
| <b>Project Manager</b><br>Amanda Jacobs                           |                   |                   |        |                  | <b>Shipping Company</b>                    |                  |                 | Airbill No.       |          |                             |  |  |  |  |  |  |  |  |  |
| <b>Project Manager Email Address</b><br>amanda.jacobs@newgold.com |                   |                   |        |                  | <b>Shipping Date</b><br>01/07/2024         |                  |                 |                   |          |                             |  |  |  |  |  |  |  |  |  |
| <b>Sampler</b>                                                    |                   |                   |        |                  |                                            |                  |                 |                   |          |                             |  |  |  |  |  |  |  |  |  |
| Items No.                                                         | Sample ID         | Sample Location   | Matrix | G=Grab<br>C=Comp | Depth                                      | Sample Date Time | # of Containers | Comments Lab I.D. |          |                             |  |  |  |  |  |  |  |  |  |
| 1                                                                 | SW22A_SW_20240102 | Surface Water 22A | SW     | G                |                                            | 01/04/2024 11:25 | 12              |                   | X        | X                           |  |  |  |  |  |  |  |  |  |
| 2                                                                 | SW06_SW_20240102  | 903               | SW     | G                |                                            | 01/04/2024 12:00 | 11              | pH=7.57.          | X        |                             |  |  |  |  |  |  |  |  |  |
| 3                                                                 | SW27_SW_20240102  | Surface Water 27  | SW     | G                |                                            | 01/04/2024 15:10 | 11              |                   | X        |                             |  |  |  |  |  |  |  |  |  |
| 4                                                                 | SW21A_SW_20240102 | Surface Water 21A | SW     | G                |                                            | 01/04/2024 15:20 | 11              | pH=7.57.          | X        |                             |  |  |  |  |  |  |  |  |  |
| 5                                                                 | SW17_SW_20240102  | Surface Water 17  | SW     | G                |                                            | 01/07/2024 11:25 | 11              | pH=7.49.          | X        |                             |  |  |  |  |  |  |  |  |  |

| Additional Comments/Special Instructions:                                         | RELINQUISHED BY / AFFILIATION          | Date Time | ACCEPTED BY / AFFILIATION  | Date Time |
|-----------------------------------------------------------------------------------|----------------------------------------|-----------|----------------------------|-----------|
| LV 1/10/24 9:06<br>2 Coolers → 7.4°C , 6.8°C<br>Manitoulin 28389333<br>+ Ice pack |                                        |           |                            |           |
|                                                                                   |                                        |           |                            |           |
|                                                                                   | SHIPPING METHOD: (mark as appropriate) |           | SAMPLER NAME AND SIGNATURE | Date Time |
| Email Report To : rainyriver.labresults@newgold.com                               |                                        |           |                            |           |
| Email Invoice To : rainyriver.accounts1@newgold.com                               |                                        |           |                            |           |



|                 |               | Field Dissolved Oxygen | Field pH | Field Temp |
|-----------------|---------------|------------------------|----------|------------|
| Sample Code     | Date and Time |                        |          |            |
| SW06_SW_2024010 | 2024-01-04    | 5.22                   | 7.57     | -0.11      |
| SW17_SW_2024010 | 2024-01-07    | 11.7                   | 7.49     | -0.2       |
| SW21A_SW_202401 | 2024-01-04    | 5.31                   | 7.57     | 0.05       |
| SW22A_SW_202401 | 2024-01-04    | 5.22                   | 7.57     | -0.11      |
| SW27_SW_2024010 | 2024-01-04    | 8.93                   | 7.91     | -0.06      |

## Intake and Login Verification Form

| SAMPLE INTAKE                                                                    |                                          |                                     |                                            |
|----------------------------------------------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|
| Priority/Emergency Service Requested                                             | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Time Sensitive Hold Time                                                         | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Client:                                                                          | New Gold                                 |                                     |                                            |
| SAMPLE RECEIPT INFORMATION                                                       |                                          |                                     |                                            |
| Mode of Delivery:                                                                | <input checked="" type="radio"/> Courier | Drop Off                            |                                            |
| Courier                                                                          | Man, Toulin                              |                                     |                                            |
| Waybill Number                                                                   | 28389333                                 |                                     |                                            |
| Temperature                                                                      | 7.4 - 6.8                                | Cooler Count                        | 2                                          |
| Cooling Method                                                                   | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION                                                 |                                          |                                     |                                            |
| Matrix:                                                                          | <input checked="" type="radio"/> Water   | Soil                                | Air                                        |
|                                                                                  |                                          | Biota                               | Other                                      |
| DW Schedule 24 Bottles Correct?                                                  |                                          | Yes                                 | <input checked="" type="radio"/> NO        |
| DW Metals pH Check <2                                                            |                                          | Yes                                 | <input checked="" type="radio"/> NO        |
| Regulation Circled, Works # present                                              | Yes                                      | No - Reject?                        |                                            |
| # of Bottles:                                                                    | 12                                       | Sample Count                        | 5                                          |
| Green/white                                                                      | 5 Routine, 5 BOD                         |                                     |                                            |
| Purple/white                                                                     | 5 NRTs, 5 TOC, 5 DOC                     |                                     |                                            |
| Warm red/white                                                                   | 5 Tot. Metals, 5 Diss. Metals            |                                     |                                            |
| Yellow/black                                                                     | 5 Tot. Hg, 5 Diss. Hg                    |                                     |                                            |
| Light blue/white                                                                 |                                          |                                     |                                            |
| Orange/black                                                                     |                                          |                                     |                                            |
| Others (detail)                                                                  | 1 Radium<br><br>5x20GG<br>5 Cyanide      |                                     |                                            |
| Comments on Samples and Bottles:                                                 |                                          |                                     |                                            |
| Samples Requiring Preservation or Filtering:<br>DOC, Diss. Metals, Diss. Hg → FP |                                          |                                     |                                            |
| Layout Staff Initials                                                            | LV 11/10/24 9:30                         |                                     |                                            |
| Date and Time of Layout                                                          |                                          |                                     |                                            |

| ACCOUNT INFO VERIFICATION                                        |              |                                     |
|------------------------------------------------------------------|--------------|-------------------------------------|
| Priority/Emergency Service Requested                             | YES          | <input checked="" type="radio"/> NO |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |              |                                     |
| Client                                                           | Work Contact | Quote                               |
| RECEIPT DETAIL                                                   |              |                                     |
| Project                                                          | PO           | Site/LSD                            |
| Overall Description Entered                                      | Yes          | <input checked="" type="radio"/> NA |
| Received date/time as per COC                                    |              |                                     |
| Recipients match CoC or Sample Remarks                           | Yes          | <input checked="" type="radio"/> No |
| Billing Instruction added to remarks                             | Yes          | <input checked="" type="radio"/> NA |
| Sample Remarks/Specification Doc checked                         |              |                                     |
| Submission Issues communicated                                   | Yes          | <input checked="" type="radio"/> NA |
| Sample Info communicated via Remarks                             | Yes          | <input checked="" type="radio"/> NA |
| VERIFICATION CHECKLIST                                           |              |                                     |
| Planned Event Submission                                         | Yes          | <input checked="" type="radio"/> No |
| Sample Name entered as per CoC                                   |              |                                     |
| Sampling Date and time entered as per CoC                        |              |                                     |
| Containers selected in layout order                              |              |                                     |
| Sales items entered from QUOTE ONLY (and/or verified as correct) |              |                                     |
| Field Data/EC298A removed if not on COC                          | Yes          | <input checked="" type="radio"/> NA |
| Bottle Allocation Verified                                       |              |                                     |
| Guideline added or auto-allocated                                |              |                                     |
| Due dates updated                                                |              |                                     |
| VALIDATION                                                       |              |                                     |
| Validation errors resolved?                                      | Yes          | <input checked="" type="radio"/> No |
| Internal Sublet CoC created                                      | Yes          | <input checked="" type="radio"/> NA |
| Login Comments:                                                  |              |                                     |
| Login Staff Initials:                                            |              | ANS                                 |

## CERTIFICATE OF ANALYSIS

|                                |                                                       |                                |                                                               |
|--------------------------------|-------------------------------------------------------|--------------------------------|---------------------------------------------------------------|
| <b>Work Order</b>              | <b>: TY2401217</b>                                    | <b>Page</b>                    | <b>: 1 of 12</b>                                              |
| <b>Client</b>                  | <b>: New Gold Inc. (Rainy River)</b>                  | <b>Laboratory</b>              | <b>: ALS Environmental - Thunder Bay</b>                      |
| <b>Contact</b>                 | <b>: Garnet.Cornell@newgold.com Garnet Cornell</b>    | <b>Account Manager</b>         | <b>: Christine Paradis</b>                                    |
| <b>Address</b>                 | <b>: 24 Marr Rd.<br/>Barwick ON Canada P0W 1A0</b>    | <b>Address</b>                 | <b>: 1081 Barton Street<br/>Thunder Bay ON Canada P7B 5N3</b> |
| <b>Telephone</b>               | <b>: 807 234 8170</b>                                 | <b>Telephone</b>               | <b>: +1 807 623 6463</b>                                      |
| <b>Project</b>                 | <b>: Surface Water</b>                                | <b>Date Samples Received</b>   | <b>: 09-Feb-2024 08:55</b>                                    |
| <b>PO</b>                      | <b>: 4700002620</b>                                   | <b>Date Analysis Commenced</b> | <b>: 09-Feb-2024</b>                                          |
| <b>C-O-C number</b>            | <b>: ----</b>                                         | <b>Issue Date</b>              | <b>: 28-Feb-2024 13:32</b>                                    |
| <b>Sampler</b>                 | <b>: ----</b>                                         |                                |                                                               |
| <b>Site</b>                    | <b>: New Gold Inc. (Rainy River)</b>                  |                                |                                                               |
| <b>Quote number</b>            | <b>: New Gold Rainy River Project - Picka Project</b> |                                |                                                               |
| <b>No. of samples received</b> | <b>: 7</b>                                            |                                |                                                               |
| <b>No. of samples analysed</b> | <b>: 7</b>                                            |                                |                                                               |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i>   | <i>Position</i>                             | <i>Laboratory Department</i>                     |
|----------------------|---------------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics                    | Administration, Thunder Bay, Ontario             |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Metals, Thunder Bay, Ontario                     |
| Jocelyn Kennedy      | Department Manager - Semi-Volatile Organics | Organics, Waterloo, Ontario                      |
| Julie Ruoho          | Account Manager                             | External Subcontracting, Saskatoon, Saskatchewan |
| Julie Ruoho          | Teamleader Wet Chem                         | Inorganics, Thunder Bay, Ontario                 |
| Manuel Tavaratello   | Supervisor - Semi-Volatile Extractions      | Organics, Waterloo, Ontario                      |
| Nik Perkio           | Inorganics Analyst                          | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Inorganics Analyst                          | Metals, Waterloo, Ontario                        |
| Niki Goebel          | Inorganics Analyst                          | Metals, Waterloo, Ontario                        |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions      | Organics, Waterloo, Ontario                      |
| Rhiannon Scheffee    | Laboratory Assistant                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry                | Inorganics, Thunder Bay, Ontario                 |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Client sample ID                         |            |              |        |          | SW02_SW_202<br>40201<br>SW | SW20_SW_202<br>40201<br>SW | SW21A_SW_20<br>240201<br>SW | SW27_SW_202<br>40201<br>SW | SW26_SW_202<br>40201<br>SW |
|------------------------------------------|------------|--------------|--------|----------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |              |        |          | 07-Feb-2024<br>15:40       | 07-Feb-2024<br>15:10       | 07-Feb-2024<br>10:50        | 01-Feb-2024<br>11:15       | 07-Feb-2024<br>11:30       |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2401217-001              | TY2401217-002              | TY2401217-003               | TY2401217-004              | TY2401217-005              |
|                                          |            |              |        |          | Result                     | Result                     | Result                      | Result                     | Result                     |
| Field Tests                              |            |              |        |          |                            |                            |                             |                            |                            |
| Oxygen, dissolved, field                 | ----       | EF001/TY     | 0.01   | mg/L     | 6.18                       | 4.81                       | 1.86                        | 0.91                       | 8.91                       |
| pH, field                                | ----       | EF001/TY     | 0.10   | pH units | 6.95                       | 7.04                       | 6.82                        | 6.94                       | 7.41                       |
| Temperature, field                       | ----       | EF001/TY     | 0.10   | °C       | <0.10                      | 0.15                       | <0.10                       | 0.70                       | -0.10                      |
| Physical Tests                           |            |              |        |          |                            |                            |                             |                            |                            |
| Acidity (as CaCO3)                       | ----       | E283/TY      | 2.0    | mg/L     | 10.0                       | 8.7                        | 10.5                        | 3.3                        | 3.3                        |
| Colour, true                             | ----       | E329-L/TY    | 2.0    | CU       | 189                        | 92.6                       | 127                         | 72.7                       | 80.0                       |
| Conductivity                             | ----       | E100/TY      | 1.0    | µS/cm    | 187                        | 363                        | 452                         | 534                        | 471                        |
| Hardness (as CaCO3), dissolved           | ----       | EC100/TY     | 0.50   | mg/L     | 107                        | 171                        | 213                         | 259                        | 231                        |
| pH                                       | ----       | E108/TY      | 0.10   | pH units | 7.50                       | 7.73                       | 7.74                        | 8.06                       | 8.12                       |
| Solids, total dissolved [TDS]            | ----       | E162/TY      | 10     | mg/L     | 178                        | 254                        | 312                         | 341                        | 325                        |
| Solids, total suspended [TSS]            | ----       | E160/TY      | 3.0    | mg/L     | <3.0                       | 9.5                        | 9.1                         | 4.7                        | 5.7                        |
| Turbidity                                | ----       | E121/TY      | 0.10   | NTU      | 3.93                       | 13.5                       | 11.8                        | 8.29                       | 9.20                       |
| Alkalinity, total (as CaCO3)             | ----       | E290/TY      | 2.0    | mg/L     | 97.6                       | 171                        | 211                         | 225                        | 220                        |
| Anions and Nutrients                     |            |              |        |          |                            |                            |                             |                            |                            |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.336                      | 0.204 <sup>&lt;T</sup>     | 0.123 <sup>&lt;T</sup>      | 0.0781 <sup>&lt;T</sup>    | 0.0538 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                    | <0.0010                    | <0.0010                     | <0.0010                    | <0.0010                    |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 0.48                       | 17.0                       | 25.6                        | 18.2                       | 18.6                       |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020                     | 0.033                      | 0.043                       | 0.047                      | 0.040                      |
| Kjeldahl nitrogen, total [TKN]           | ----       | E318/TY      | 0.050  | mg/L     | 1.42                       | 1.37                       | 1.49                        | 0.963                      | 0.887                      |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                     | 0.022 <sup>&lt;T</sup>     | <0.020                      | 0.659                      | 0.240 <sup>&lt;T</sup>     |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                     | <0.010                     | <0.010                      | <0.010                     | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0022                     | 0.0152                     | 0.154                       | 0.0048                     | 0.0048                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | <0.30                      | 5.78                       | 5.90                        | 45.3                       | 24.7                       |
| Cyanides                                 |            |              |        |          |                            |                            |                             |                            |                            |
| Cyanide, free                            | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |              |        |          |                            |                            |                             |                            |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW02_SW_202<br>40201<br>SW | SW20_SW_202<br>40201<br>SW | SW21A_SW_20<br>240201<br>SW | SW27_SW_202<br>40201<br>SW | SW26_SW_202<br>40201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-Feb-2024<br>15:40 | 07-Feb-2024<br>15:10       | 07-Feb-2024<br>10:50       | 01-Feb-2024<br>11:15        | 07-Feb-2024<br>11:30       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401217-001        | TY2401217-002              | TY2401217-003              | TY2401217-004               | TY2401217-005              |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                      | Result                     |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                            |                             |                            |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT  | 0.50      | mg/L | 38.1                 | 27.9                       | 30.4                       | 21.2                        | 22.0                       |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 39.9                 | 26.5                       | 30.0                       | 22.2                        | 23.6                       |                            |
| Total Metals                                 |            |            |           |      |                      |                            |                            |                             |                            |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0760               | 0.362                      | 0.153                      | 0.312                       | 0.304                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | 0.00015 <T                  | 0.00012 <T                 |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00083 <T           | 0.00116 <T                 | 0.00164 <T                 | 0.00115 <T                  | 0.00133 <T                 |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0140               | 0.0227                     | 0.0346                     | 0.0299                      | 0.0284                     |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | 0.000026 <T                | 0.000024 <T                | <0.000020                   | <0.000020                  |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                  |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010               | 0.015 <T                   | 0.017 <T                   | 0.020 <T                    | 0.019 <T                   |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000062 <T         | 0.0000114 <T               | 0.0000093 <T               | 0.0000144 <T                | 0.0000145 <T               |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 24.4                 | 42.0                       | 50.7                       | 65.9                        | 55.8                       |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010            | 0.000046                   | 0.000017                   | 0.000035                    | 0.000040                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | 0.00083 <T                 | 0.00058 <T                 | 0.00071 <T                  | 0.00069 <T                 |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00082 <T           | 0.00086 <T                 | 0.00242 <T                 | 0.00035 <T                  | 0.00028 <T                 |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050             | 0.00076 <T                 | 0.00066 <T                 | 0.00208 <T                  | 0.00195 <T                 |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.990                | 1.64                       | 3.34                       | 0.623                       | 0.625                      |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000130 <T          | 0.000293 <T                | 0.000165 <T                | 0.000256 <T                 | 0.000296 <T                |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0025 <T            | 0.0069 <T                  | 0.0081 <T                  | 0.0094 <T                   | 0.0084 <T                  |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 10.3                 | 17.2                       | 21.1                       | 24.7                        | 22.5                       |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.490                | 0.479                      | 1.94                       | 0.205                       | 0.0798                     |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | <0.000050            | 0.000236 <T                | 0.000335 <T                | 0.000792 <T                 | 0.00149 <T                 |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00068 <T           | 0.00166 <T                 | 0.00193 <T                 | 0.00160 <T                  | 0.00159 <T                 |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | 0.063                      | 0.274                      | <0.050                      | <0.050                     |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.883                | 1.98                       | 3.03                       | 2.90                        | 3.08                       |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00225              | 0.00248                    | 0.00240                    | 0.00257                     | 0.00268                    |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000138 <T          | 0.000122 <T                | 0.000195 <T                | 0.000148 <T                 | 0.000141 <T                |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 8.96                 | 9.09                       | 8.30                       | 6.69                        | 6.53                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW02_SW_202<br>40201<br>SW | SW20_SW_202<br>40201<br>SW | SW21A_SW_20<br>240201<br>SW | SW27_SW_202<br>40201<br>SW | SW26_SW_202<br>40201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-Feb-2024<br>15:40      | 07-Feb-2024<br>15:10       | 07-Feb-2024<br>10:50       | 01-Feb-2024<br>11:15        | 07-Feb-2024<br>11:30       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401217-001             | TY2401217-002              | TY2401217-003              | TY2401217-004               | TY2401217-005              |                            |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                      | Result                     |                            |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                             |                            |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 1.38                      | 9.51                       | 11.6                       | 8.65                        | 7.50                       |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0413                    | 0.0991                     | 0.130                      | 0.185                       | 0.150                      |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | <0.50                     | 2.65                       | 2.82                       | 16.5                        | 8.94                       |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                    | <0.00020                   |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                   | 0.000010                   |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00198                   | 0.0142                     | 0.00616                    | 0.0124                      | 0.0118                     |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000058 <sup>&lt;T</sup> | 0.000540 <sup>&lt;T</sup>  | 0.000760 <sup>&lt;T</sup>  | 0.00179 <sup>&lt;T</sup>    | 0.00147 <sup>&lt;T</sup>   |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00155                    | 0.00111                    | 0.00132                     | 0.00121                    |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0030                    | 0.0035 <sup>&lt;T</sup>    | <0.0030                    | 0.0350                      | 0.0429                     |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                  | 0.00042                    | 0.00044                    | 0.00049                     | 0.00048                    |                            |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                             |                            |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0449                    | 0.0177                     | 0.0132                     | 0.0148                      | 0.0180                     |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | 0.00012                     | <0.00010                   |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00080                   | 0.00093                    | 0.00132                    | 0.00101                     | 0.00114                    |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0114                    | 0.0171                     | 0.0222                     | 0.0272                      | 0.0259                     |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                   | <0.000020                  |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                  |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | 0.014                      | 0.015                      | 0.020                       | 0.018                      |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                 | <0.0000050                 | 0.0000093                   | 0.0000052                  |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 25.2                      | 39.5                       | 49.4                       | 62.9                        | 55.4                       |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                    | <0.00050                   |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00022                   | 0.00018                    | 0.00080                    | 0.00021                     | 0.00017                    |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | <0.00020                  | 0.00055                    | 0.00066                    | 0.00164                     | 0.00154                    |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.688                     | 0.717                      | 1.62                       | 0.250                       | 0.260                      |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW02_SW_202<br>40201<br>SW | SW20_SW_202<br>40201<br>SW | SW21A_SW_20<br>240201<br>SW | SW27_SW_202<br>40201<br>SW | SW26_SW_202<br>40201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-Feb-2024<br>15:40 | 07-Feb-2024<br>15:10       | 07-Feb-2024<br>10:50       | 01-Feb-2024<br>11:15        | 07-Feb-2024<br>11:30       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401217-001        | TY2401217-002              | TY2401217-003              | TY2401217-004               | TY2401217-005              |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                      | Result                     |                            |
| Dissolved Metals                             |            |            |           |      |                      |                            |                            |                             |                            |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050            | 0.000081                   | 0.000054                   | <0.000050                   | 0.000055                   |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0025               | 0.0068                     | 0.0078                     | 0.0096                      | 0.0090                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 10.8                 | 17.5                       | 21.7                       | 24.8                        | 22.5                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0724               | 0.0570                     | 0.780                      | 0.175                       | 0.0619                     |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | <0.000050            | 0.000200                   | 0.000298                   | 0.000753                    | 0.00160                    |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00058              | 0.00125                    | 0.00168                    | 0.00130                     | 0.00121                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | 0.145                      | <0.050                      | <0.050                     |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.907                | 1.97                       | 3.12                       | 2.92                        | 2.96                       |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00218              | 0.00163                    | 0.00208                    | 0.00201                     | 0.00207                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000140             | 0.000158                   | 0.000197                   | 0.000178                    | 0.000141                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 8.77                 | 8.17                       | 7.79                       | 5.97                        | 5.88                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 1.33                 | 9.30                       | 11.6                       | 8.41                        | 7.32                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0402               | 0.0985                     | 0.122                      | 0.179                       | 0.156                      |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | <0.50                | 2.52                       | 2.65                       | 16.5                        | 9.11                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                   | <0.00020                    | <0.00020                   |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00110              | 0.00200                    | 0.00137                    | 0.00222                     | 0.00246                    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000054             | 0.000494                   | 0.000702                   | 0.00165                     | 0.00135                    |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | 0.00053                    | 0.00051                    | <0.00050                    | <0.00050                   |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0018               | 0.0011                     | 0.0012                     | 0.0304                      | 0.0344                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | 0.00032                    | 0.00032                    | <0.00030                    | <0.00030                   |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                 | Laboratory                 | Laboratory                  | Laboratory                 |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                 | Laboratory                 | Laboratory                  | Laboratory                 |                            |
| Aggregate Organics                           |            |            |           |      |                      |                            |                            |                             |                            |                            |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                 |            |            |       |      | Client sample ID | SW02_SW_202<br>40201<br>SW | SW20_SW_202<br>40201<br>SW | SW21A_SW_20<br>240201<br>SW | SW27_SW_202<br>40201<br>SW | SW26_SW_202<br>40201<br>SW |
|---------------------------------|------------|------------|-------|------|------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time     |            |            |       |      |                  | 07-Feb-2024<br>15:40       | 07-Feb-2024<br>15:10       | 07-Feb-2024<br>10:50        | 01-Feb-2024<br>11:15       | 07-Feb-2024<br>11:30       |
| Analyte                         | CAS Number | Method/Lab | LOR   | Unit |                  | TY2401217-001              | TY2401217-002              | TY2401217-003               | TY2401217-004              | TY2401217-005              |
|                                 |            |            |       |      |                  | Result                     | Result                     | Result                      | Result                     | Result                     |
| Aggregate Organics              |            |            |       |      |                  |                            |                            |                             |                            |                            |
| Biochemical oxygen demand [BOD] | ----       | E550/TY    | 2.0   | mg/L |                  | 2.6                        | <2.0                       | 2.5                         | <2.0                       | <2.0                       |
| Chemical oxygen demand [COD]    | ----       | E559-L/TY  | 10    | mg/L |                  | 100                        | 65                         | 80                          | 54                         | 58                         |
| Oil & grease (gravimetric)      | ----       | E567-L/WT  | 1.0   | mg/L |                  | 1.7                        | 2.4                        | 1.6                         | 1.4                        | 1.0                        |
| Radiological Parameters         |            |            |       |      |                  |                            |                            |                             |                            |                            |
| Radium-226                      | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L |                  | ----                       | <0.005                     | ----                        | ----                       | ----                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                              |            |              |        |          |                         |                            |                             |       |       |      |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|----------------------------|-----------------------------|-------|-------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW25_SW_202<br>40201<br>SW | SW28A_SW_20<br>240201<br>SW | ----  | ----  | ---- |
| Client sampling date / time                  |            |              |        |          | 07-Feb-2024<br>11:50    | 07-Feb-2024<br>13:55       | ----                        | ----  | ----  |      |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2401217-006           | TY2401217-007              | -----                       | ----- | ----- |      |
|                                              |            |              |        |          | Result                  | Result                     | ----                        | ----  | ----  |      |
| Field Tests                                  |            |              |        |          |                         |                            |                             |       |       |      |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 9.69                    | 10.81                      | ----                        | ----  | ----  |      |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.41                    | 7.51                       | ----                        | ----  | ----  |      |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 0.15                    | <0.10                      | ----                        | ----  | ----  |      |
| Physical Tests                               |            |              |        |          |                         |                            |                             |       |       |      |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 2.9                     | 3.2                        | ----                        | ----  | ----  |      |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 90.2                    | 84.6                       | ----                        | ----  | ----  |      |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 396                     | 272                        | ----                        | ----  | ----  |      |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 190                     | 149                        | ----                        | ----  | ----  |      |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 8.05                    | 8.01                       | ----                        | ----  | ----  |      |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 287                     | 203                        | ----                        | ----  | ----  |      |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 5.5                     | 3.3                        | ----                        | ----  | ----  |      |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 10.4                    | 3.18                       | ----                        | ----  | ----  |      |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 172                     | 144                        | ----                        | ----  | ----  |      |
| Anions and Nutrients                         |            |              |        |          |                         |                            |                             |       |       |      |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0619 <sup>&lt;T</sup> | 0.0428 <sup>&lt;T</sup>    | ----                        | ----  | ----  |      |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                    | ----                        | ----  | ----  |      |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 20.2                    | 2.60                       | ----                        | ----  | ----  |      |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.045                   | 0.034                      | ----                        | ----  | ----  |      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.926                   | 1.32                       | ----                        | ----  | ----  |      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.066 <sup>&lt;T</sup>  | 0.046 <sup>&lt;T</sup>     | ----                        | ----  | ----  |      |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                  | <0.010                     | ----                        | ----  | ----  |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0223                  | <0.0010                    | ----                        | ----  | ----  |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 13.6                    | 1.01                       | ----                        | ----  | ----  |      |
| Cyanides                                     |            |              |        |          |                         |                            |                             |       |       |      |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | ----                        | ----  | ----  |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | ----                        | ----  | ----  |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | ----                        | ----  | ----  |      |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                            |                             |       |       |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 23.7                    | 30.4                       | ----                        | ----  | ----  |      |



Analytical Results

|                                              |            |            |           |      |                            |                            |                             |       |       |       |
|----------------------------------------------|------------|------------|-----------|------|----------------------------|----------------------------|-----------------------------|-------|-------|-------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID           | SW25_SW_202<br>40201<br>SW | SW28A_SW_20<br>240201<br>SW | ----  | ----  | ----  |
| Client sampling date / time                  |            |            |           |      |                            | 07-Feb-2024<br>11:50       | 07-Feb-2024<br>13:55        | ----  | ----  | ----  |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401217-006              | TY2401217-007              | -----                       | ----- | ----- | ----- |
|                                              |            |            |           |      | Result                     | Result                     | ----                        | ----  | ----  | ----  |
| Organic / Inorganic Carbon                   |            |            |           |      |                            |                            |                             |       |       |       |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 26.2                       | 31.6                       | ----                        | ----  | ----  | ----  |
| Total Metals                                 |            |            |           |      |                            |                            |                             |       |       |       |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.329                      | 0.106                      | ----                        | ----  | ----  | ----  |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00010                    | <0.00010                   | ----                        | ----  | ----  | ----  |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00099 <sup>&lt;T</sup>   | 0.00090 <sup>&lt;T</sup>   | ----                        | ----  | ----  | ----  |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0185                     | 0.0145                     | ----                        | ----  | ----  | ----  |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                  | <0.000020                  | ----                        | ----  | ----  | ----  |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                  | ----                        | ----  | ----  | ----  |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.013 <sup>&lt;T</sup>     | 0.013 <sup>&lt;T</sup>     | ----                        | ----  | ----  | ----  |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000104 <sup>&lt;T</sup> | <0.0000050                 | ----                        | ----  | ----  | ----  |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 50.1                       | 35.2                       | ----                        | ----  | ----  | ----  |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000042                   | 0.000015                   | ----                        | ----  | ----  | ----  |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00073 <sup>&lt;T</sup>   | <0.00050                   | ----                        | ----  | ----  | ----  |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00032 <sup>&lt;T</sup>   | 0.00025 <sup>&lt;T</sup>   | ----                        | ----  | ----  | ----  |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00161 <sup>&lt;T</sup>   | 0.00109 <sup>&lt;T</sup>   | ----                        | ----  | ----  | ----  |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.620                      | 0.399                      | ----                        | ----  | ----  | ----  |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000237 <sup>&lt;T</sup>  | 0.000067 <sup>&lt;T</sup>  | ----                        | ----  | ----  | ----  |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0055 <sup>&lt;T</sup>    | 0.0042 <sup>&lt;T</sup>    | ----                        | ----  | ----  | ----  |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 17.6                       | 15.3                       | ----                        | ----  | ----  | ----  |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0747                     | 0.0303                     | ----                        | ----  | ----  | ----  |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                 | <0.0000050                 | ----                        | ----  | ----  | ----  |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000576 <sup>&lt;T</sup>  | 0.000329 <sup>&lt;T</sup>  | ----                        | ----  | ----  | ----  |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00149 <sup>&lt;T</sup>   | 0.00119 <sup>&lt;T</sup>   | ----                        | ----  | ----  | ----  |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                     | <0.050                     | ----                        | ----  | ----  | ----  |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 2.76                       | 1.16                       | ----                        | ----  | ----  | ----  |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00255                    | 0.00185                    | ----                        | ----  | ----  | ----  |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000121 <sup>&lt;T</sup>  | 0.000171 <sup>&lt;T</sup>  | ----                        | ----  | ----  | ----  |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 5.91                       | 4.16                       | ----                        | ----  | ----  | ----  |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                  | ----                        | ----  | ----  | ----  |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID         | SW25_SW_202<br>40201<br>SW | SW28A_SW_20<br>240201<br>SW | ----  | ----  | ---- |
|----------------------------------------------|------------|------------|-----------|------|--------------------------|----------------------------|-----------------------------|-------|-------|------|
| Client sampling date / time                  |            |            |           |      | 07-Feb-2024<br>11:50     | 07-Feb-2024<br>13:55       | ----                        | ----  | ----  |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401217-006            | TY2401217-007              | -----                       | ----- | ----- |      |
|                                              |            |            |           |      | Result                   | Result                     | ----                        | ----  | ----  |      |
| Total Metals                                 |            |            |           |      |                          |                            |                             |       |       |      |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 6.50                     | 1.74                       | ----                        | ----  | ----  |      |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.113                    | 0.0699                     | ----                        | ----  | ----  |      |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 5.00                     | 0.77                       | ----                        | ----  | ----  |      |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                 | <0.00020                   | ----                        | ----  | ----  |      |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                | <0.000010                  | ----                        | ----  | ----  |      |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                 | <0.00010                   | ----                        | ----  | ----  |      |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                 | <0.00010                   | ----                        | ----  | ----  |      |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | <0.0152 <sup>DLM</sup>   | 0.00384                    | ----                        | ----  | ----  |      |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                 | <0.00010                   | ----                        | ----  | ----  |      |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.00122 <sup>&lt;T</sup> | 0.000603 <sup>&lt;T</sup>  | ----                        | ----  | ----  |      |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00127                  | 0.00055                    | ----                        | ----  | ----  |      |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0087 <sup>&lt;T</sup>  | <0.0030                    | ----                        | ----  | ----  |      |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00042                  | <0.00020                   | ----                        | ----  | ----  |      |
| Dissolved Metals                             |            |            |           |      |                          |                            |                             |       |       |      |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0184                   | 0.0114                     | ----                        | ----  | ----  |      |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                 | <0.00010                   | ----                        | ----  | ----  |      |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00091                  | 0.00089                    | ----                        | ----  | ----  |      |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0166                   | 0.0142                     | ----                        | ----  | ----  |      |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                | <0.000020                  | ----                        | ----  | ----  |      |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                | <0.000050                  | ----                        | ----  | ----  |      |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.012                    | 0.011                      | ----                        | ----  | ----  |      |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050               | <0.0000050                 | ----                        | ----  | ----  |      |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 47.3                     | 34.2                       | ----                        | ----  | ----  |      |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                | <0.000010                  | ----                        | ----  | ----  |      |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                 | <0.00050                   | ----                        | ----  | ----  |      |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00018                  | 0.00015                    | ----                        | ----  | ----  |      |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00108                  | 0.00062                    | ----                        | ----  | ----  |      |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.256                    | 0.188                      | ----                        | ----  | ----  |      |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000056                 | <0.000050                  | ----                        | ----  | ----  |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW25_SW_202<br>40201<br>SW | SW28A_SW_20<br>240201<br>SW | ----  | ----  | ---- |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|-----------------------------|-------|-------|------|
| Client sampling date / time                  |            |            |           |      | 07-Feb-2024<br>11:50 | 07-Feb-2024<br>13:55       | ----                        | ----  | ----  |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401217-006        | TY2401217-007              | -----                       | ----- | ----- |      |
|                                              |            |            |           |      | Result               | Result                     | ----                        | ----  | ----  |      |
| Dissolved Metals                             |            |            |           |      |                      |                            |                             |       |       |      |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0054               | 0.0047                     | ----                        | ----  | ----  |      |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 17.6                 | 15.5                       | ----                        | ----  | ----  |      |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0607               | 0.0149                     | ----                        | ----  | ----  |      |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | ----                        | ----  | ----  |      |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000542             | 0.000309                   | ----                        | ----  | ----  |      |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00106              | 0.00098                    | ----                        | ----  | ----  |      |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | ----                        | ----  | ----  |      |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 2.68                 | 1.18                       | ----                        | ----  | ----  |      |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00191              | 0.00163                    | ----                        | ----  | ----  |      |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000169             | 0.000141                   | ----                        | ----  | ----  |      |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 5.42                 | 4.10                       | ----                        | ----  | ----  |      |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | ----                        | ----  | ----  |      |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 6.46                 | 1.76                       | ----                        | ----  | ----  |      |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.111                | 0.0695                     | ----                        | ----  | ----  |      |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 5.22                 | 0.80                       | ----                        | ----  | ----  |      |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | ----                        | ----  | ----  |      |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | ----                        | ----  | ----  |      |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | ----                        | ----  | ----  |      |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | ----                        | ----  | ----  |      |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00224              | <0.00063 <sup>DLM</sup>    | ----                        | ----  | ----  |      |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | ----                        | ----  | ----  |      |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.00111              | 0.000560                   | ----                        | ----  | ----  |      |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | ----                        | ----  | ----  |      |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0058               | <0.0010                    | ----                        | ----  | ----  |      |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                   | ----                        | ----  | ----  |      |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                 | ----                        | ----  | ----  |      |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                 | ----                        | ----  | ----  |      |
| Aggregate Organics                           |            |            |           |      |                      |                            |                             |       |       |      |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                 | <2.0                       | ----                        | ----  | ----  |      |



Analytical Results

|                                              |            |            |     |      |                             |                            |                             |       |       |      |
|----------------------------------------------|------------|------------|-----|------|-----------------------------|----------------------------|-----------------------------|-------|-------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |     |      | Client sample ID            | SW25_SW_202<br>40201<br>SW | SW28A_SW_20<br>240201<br>SW | ----  | ----  | ---- |
|                                              |            |            |     |      | Client sampling date / time | 07-Feb-2024<br>11:50       | 07-Feb-2024<br>13:55        | ----  | ----  | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR | Unit | TY2401217-006               | TY2401217-007              | -----                       | ----- | ----- |      |
|                                              |            |            |     |      | Result                      | Result                     | ----                        | ----  | ----  |      |
| Aggregate Organics                           |            |            |     |      |                             |                            |                             |       |       |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10  | mg/L | 59                          | 77                         | ----                        | ----  | ----  |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0 | mg/L | <1.0                        | <1.0                       | ----                        | ----  | ----  |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

SRC Group # 2024-1908

Feb 27, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Feb-16-2024

Client P.O.: TY2401217

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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 Snook, Vicky

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- \* 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 # 2024-1908**

Feb 27, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2024006488**  
Date Sampled: **Feb 07, 2024**  
Sample Matrix: **WATER**  
Description: **02/07/2024 14:10 SW20\_SW\_20240201 TY2401217-002**

Client PO #: **TY2401217**  
Date Received: **Feb 16, 2024**

| 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 11.3 °C upon receipt.



SRC Group # 2024-1908

Feb 27, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

1217

| <div>Project Name: Rainy River</div> <div>Location: Chapple</div> <div>Project Number:</div> <div>Project Manager:</div> <div>PO Number:</div> <div>Project:</div> <div>Turn Around Time (days): 10 Business Days</div> <div>Shipping Company:</div> <div>Shipping Date: 02/08/2024 8:26:00 AM</div> <div>COC Number: ALS-453297273</div> |                               |                     |                 |                  |        | <div>Containers</div> <div>Filtered</div> <div>Preservatives</div> |               |  | SW kits | Ra-226 Bottle |  |  |  |  |  |    |  |  |  | Number of Containers | Comments |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|--------------------------------------------------------------------|---------------|--|---------|---------------|--|--|--|--|--|----|--|--|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                                           |                               |                     |                 |                  |        | NO                                                                 |               |  |         |               |  |  |  |  |  |    |  |  |  |                      |          |
|                                                                                                                                                                                                                                                                                                                                           |                               |                     |                 |                  |        | NO                                                                 |               |  |         |               |  |  |  |  |  |    |  |  |  |                      |          |
|                                                                                                                                                                                                                                                                                                                                           |                               |                     |                 |                  |        |                                                                    |               |  |         |               |  |  |  |  |  |    |  |  |  |                      |          |
| 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 |  |         |               |  |  |  |  |  |    |  |  |  |                      |          |
| SW02_SW_20240201                                                                                                                                                                                                                                                                                                                          | 6.18                          | 6.95                | 0.05            | 2024-02-07 15:40 | SW     | X                                                                  |               |  |         |               |  |  |  |  |  | 11 |  |  |  |                      |          |
| SW20_SW_20240201                                                                                                                                                                                                                                                                                                                          | 4.81                          | 7.04                | 0.15            | 2024-02-07 15:10 | SW     | X                                                                  | X             |  |         |               |  |  |  |  |  | 12 |  |  |  |                      |          |
| SW21A_SW_20240201                                                                                                                                                                                                                                                                                                                         | 1.86                          | 6.82                | 0.07            | 2024-02-07 10:50 | SW     | X                                                                  |               |  |         |               |  |  |  |  |  | 11 |  |  |  |                      |          |
| SW27_SW_20240201                                                                                                                                                                                                                                                                                                                          | 0.91                          | 6.94                | 0.70            | 2024-02-01 11:15 | SW     | X                                                                  |               |  |         |               |  |  |  |  |  | 11 |  |  |  |                      |          |
| SW26_SW_20240201                                                                                                                                                                                                                                                                                                                          | 8.91                          | 7.41                | -0.10           | 2024-02-07 11:30 | SW     | X                                                                  |               |  |         |               |  |  |  |  |  | 11 |  |  |  |                      |          |
| SW25_SW_20240201                                                                                                                                                                                                                                                                                                                          | 9.69                          | 7.41                | 0.15            | 2024-02-07 11:50 | SW     | X                                                                  |               |  |         |               |  |  |  |  |  | 11 |  |  |  |                      |          |
| SW28_SW_20240201                                                                                                                                                                                                                                                                                                                          | 10.81                         | 7.51                | 0.00            | 2024-02-07 13:55 | SW     | X                                                                  |               |  |         |               |  |  |  |  |  | 11 |  |  |  |                      |          |

LV 2/9/24 8:55

6 Coolers  
+ Ice PacksManitowlin  
3302 92 3174

Temps. :

7.3

6.1

6.8

7.1

5.8

5.8

Environmental Division  
Thunder Bay  
Work Order Reference  
TY2401217

Telephone : +1 807 623 6463

1217

|                                                  |                                      |                            |                        |                      |               |                      |               |         |               |  |  |  |  |  |  |  |  |                             |                 |
|--------------------------------------------------|--------------------------------------|----------------------------|------------------------|----------------------|---------------|----------------------|---------------|---------|---------------|--|--|--|--|--|--|--|--|-----------------------------|-----------------|
| <b>Project Name:</b> Rainy River                 |                                      |                            |                        |                      |               | <b>Containers</b>    |               | SW kits | Ra-226 Bottle |  |  |  |  |  |  |  |  | <b>Number of Containers</b> | <b>Comments</b> |
| <b>Location:</b> Chapple                         |                                      |                            |                        |                      |               | <b>Filtered</b>      | NO            |         |               |  |  |  |  |  |  |  |  |                             |                 |
| <b>Project Number:</b>                           |                                      |                            |                        |                      |               | <b>Preservatives</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> 02/08/2024 8:26:00 AM      |                                      |                            |                        |                      |               |                      |               |         |               |  |  |  |  |  |  |  |  |                             |                 |
| <b>COC Number:</b> ALS-453297273                 |                                      |                            |                        |                      |               |                      |               |         |               |  |  |  |  |  |  |  |  |                             |                 |
| <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-MMER-BE |         |               |  |  |  |  |  |  |  |  |                             |                 |
|                                                  |                                      |                            |                        |                      |               |                      |               |         |               |  |  |  |  |  |  |  |  |                             |                 |

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

|                                                                                                                                                                                          |  |  |  |  |                              |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------------------------------|--|--|--|--|
| <b>Sample Receipt Details (ALS use only)</b>                                                                                                                                             |  |  |  |  |                              |  |  |  |  |
| 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 |  |  |  |  |
|                                                                                                                                                                                          |  |  |  |  |                              |  |  |  |  |

|                    |                  |                                                                                    |             |                                                                                                          |
|--------------------|------------------|------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------|
| <b>Signature</b>   | <b>Date/Time</b> | <b>Shipping Details</b>                                                            | <b>ATTN</b> | <b>Special Instructions:</b>                                                                             |
| <b>Shipped by</b>  | 2024-02-08 8:26  | <b>Method of Shipment:</b> Courier                                                 |             |                                                                                                          |
| <b>Received by</b> |                  | On Ice: yes / no<br>Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |             | Email Invoice to: rainyriver.accounts1@newgold.com Email<br>Report to: rainyriver.labresults@newgold.com |

# Intake and Login Verification Form

| SAMPLE INTAKE                                                                    |                                          |                                               |                                            |
|----------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Priority/Emergency Service Requested                                             | YES                                      | <input checked="" type="radio"/> NO           |                                            |
| Time Sensitive Hold Time                                                         | YES                                      | <input checked="" type="radio"/> NO           |                                            |
| Client:                                                                          | New Gold                                 |                                               |                                            |
| SAMPLE RECEIPT INFORMATION                                                       |                                          |                                               |                                            |
| Mode of Delivery:                                                                | <input checked="" type="radio"/> Courier | Drop Off                                      |                                            |
| Courier                                                                          | Mantoulin                                |                                               |                                            |
| Waybill Number                                                                   | 3302923174                               |                                               |                                            |
| Temperature                                                                      |                                          | Cooler Count 6                                |                                            |
| Cooling Method                                                                   | None                                     | Ice                                           | <input checked="" type="radio"/> Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION                                                 |                                          |                                               |                                            |
| Matrix:                                                                          | <input checked="" type="radio"/> Water   | Soil                                          | Air                                        |
|                                                                                  |                                          | Biota                                         | Other                                      |
| DW Schedule 24 Bottles Correct?                                                  |                                          | <input checked="" type="radio"/> Yes          | <input checked="" type="radio"/> No        |
| DW Metals pH Check <2                                                            |                                          | <input checked="" type="radio"/> Yes          | <input checked="" type="radio"/> No        |
| Regulation Circled, Works # present                                              | <input checked="" type="radio"/> Yes     | <input checked="" type="radio"/> No - Reject? |                                            |
| # of Bottles:                                                                    | 11                                       | Sample Count                                  | 7                                          |
| Green/white                                                                      | 7 Routine, 7 BOD                         |                                               |                                            |
| Purple/white                                                                     | 7 Nuts, 7 Tox, 7 Doc                     |                                               |                                            |
| Warm red/white                                                                   | 7 Tot. Metals, 7 Diss. Metals            |                                               |                                            |
| Yellow/black                                                                     | 7 Tot. Hg, 7 Diss. Hg                    |                                               |                                            |
| Light blue/white                                                                 |                                          |                                               |                                            |
| Orange/black                                                                     |                                          |                                               |                                            |
| Others (detail)                                                                  | 7 Cyanide<br>7x2 OGG<br>1 Radium         |                                               |                                            |
| Comments on Samples and Bottles:<br>Fr. 7 → Sample ID → SW28 vs. SW28A           |                                          |                                               |                                            |
| Samples Requiring Preservation or Filtering:<br>DOC, Diss. Metals, Diss. Hg → FP |                                          |                                               |                                            |
| Layout Staff Initials                                                            | LV                                       |                                               |                                            |
| Date and Time of Layout                                                          | 2/9/24 9:40                              |                                               |                                            |

| ACCOUNT INFO VERIFICATION                                           |                                      |                                     |  |
|---------------------------------------------------------------------|--------------------------------------|-------------------------------------|--|
| Priority/Emergency Service Requested                                | YES                                  | <input checked="" type="radio"/> NO |  |
| Confirmed all as accurate as per COC, Sample Remarks or PM          |                                      |                                     |  |
| Client                                                              | Work Contact                         | Quote                               |  |
| RECEIPT DETAIL                                                      |                                      |                                     |  |
| Project                                                             | PO                                   | Site/LSD                            |  |
| Overall Description Entered                                         | Yes                                  | <input checked="" type="radio"/> NA |  |
| Received date/time as per COC                                       | <input checked="" type="radio"/>     |                                     |  |
| Recipients match CoC or Sample Remarks                              | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |  |
| Billing Instruction added to remarks                                | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> NA |  |
| Sample Remarks/Specification Doc checked                            | <input checked="" type="radio"/>     |                                     |  |
| Submission Issues communicated                                      | Yes                                  | <input checked="" type="radio"/> NA |  |
| Sample Info communicated via Remarks                                | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> NA |  |
| VERIFICATION CHECKLIST                                              |                                      |                                     |  |
| Planned Event Submission                                            | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |  |
| Sample Name entered as per CoC                                      | <input checked="" type="radio"/>     |                                     |  |
| Sampling Date and time entered as per CoC                           | <input checked="" type="radio"/>     |                                     |  |
| Containers selected in layout order                                 | <input checked="" type="radio"/>     |                                     |  |
| Sales items entered from QUOTE ONLY<br>(and/or verified as correct) | <input checked="" type="radio"/>     |                                     |  |
| Field Data/EC298A removed if not on COC                             | Yes                                  | <input checked="" type="radio"/> NA |  |
| Bottle Allocation Verified                                          | <input checked="" type="radio"/>     |                                     |  |
| Guideline added or auto-allocated                                   | <input checked="" type="radio"/>     |                                     |  |
| Due dates updated                                                   | <input checked="" type="radio"/>     |                                     |  |
| VALIDATION                                                          |                                      |                                     |  |
| Validation errors resolved?                                         | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |  |
| Internal Sublet CoC created                                         | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> NA |  |
| Login Comments:                                                     |                                      |                                     |  |
| Login Staff Initials:                                               |                                      | MM                                  |  |

## CERTIFICATE OF ANALYSIS

|                                |                                                       |                                |                                                               |
|--------------------------------|-------------------------------------------------------|--------------------------------|---------------------------------------------------------------|
| <b>Work Order</b>              | <b>: TY2401215</b>                                    | <b>Page</b>                    | <b>: 1 of 13</b>                                              |
| <b>Client</b>                  | <b>: New Gold Inc. (Rainy River)</b>                  | <b>Laboratory</b>              | <b>: ALS Environmental - Thunder Bay</b>                      |
| <b>Contact</b>                 | <b>: Garnet.Cornell@newgold.com Garnet Cornell</b>    | <b>Account Manager</b>         | <b>: Christine Paradis</b>                                    |
| <b>Address</b>                 | <b>: 24 Marr Rd.<br/>Barwick ON Canada P0W 1A0</b>    | <b>Address</b>                 | <b>: 1081 Barton Street<br/>Thunder Bay ON Canada P7B 5N3</b> |
| <b>Telephone</b>               | <b>: 807 234 8170</b>                                 | <b>Telephone</b>               | <b>: +1 807 623 6463</b>                                      |
| <b>Project</b>                 | <b>: Surface Water</b>                                | <b>Date Samples Received</b>   | <b>: 09-Feb-2024 08:55</b>                                    |
| <b>PO</b>                      | <b>: 4700002620</b>                                   | <b>Date Analysis Commenced</b> | <b>: 09-Feb-2024</b>                                          |
| <b>C-O-C number</b>            | <b>: ----</b>                                         | <b>Issue Date</b>              | <b>: 27-Feb-2024 14:21</b>                                    |
| <b>Sampler</b>                 | <b>: ----</b>                                         |                                |                                                               |
| <b>Site</b>                    | <b>: New Gold Inc. (Rainy River)</b>                  |                                |                                                               |
| <b>Quote number</b>            | <b>: New Gold Rainy River Project - Picka Project</b> |                                |                                                               |
| <b>No. of samples received</b> | <b>: 10</b>                                           |                                |                                                               |
| <b>No. of samples analysed</b> | <b>: 10</b>                                           |                                |                                                               |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i>   | <i>Position</i>                             | <i>Laboratory Department</i>                     |
|----------------------|---------------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics                    | Administration, Thunder Bay, Ontario             |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Metals, Thunder Bay, Ontario                     |
| Greg Pokocky         | Manager - Inorganics                        | Inorganics, Waterloo, Ontario                    |
| Jocelyn Kennedy      | Department Manager - Semi-Volatile Organics | Organics, Waterloo, Ontario                      |
| Julie Ruoho          | Account Manager                             | External Subcontracting, Saskatoon, Saskatchewan |
| Julie Ruoho          | Teamleader Wet Chem                         | Inorganics, Thunder Bay, Ontario                 |
| Manuel TavaraTello   | Supervisor - Semi-Volatile Extractions      | Organics, Waterloo, Ontario                      |
| Nik Perkio           | Inorganics Analyst                          | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Inorganics Analyst                          | Metals, Waterloo, Ontario                        |
| Niki Goebel          | Inorganics Analyst                          | Metals, Waterloo, Ontario                        |
| Rhiannon Scheffee    | Laboratory Assistant                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry                | Inorganics, Thunder Bay, Ontario                 |
| Shannon Veltri       | Supervisor - Water Chemistry                | Metals, Thunder Bay, Ontario                     |





## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| 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.                          |
| RRV       | Reported result verified by repeat analysis.                                                           |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                          |            |              |        |          | SW16_SW_202<br>40201<br>SW | FB_SW_202402<br>01<br>SW | SW06_SW_202<br>40201<br>SW | SW15_SW_202<br>40201<br>SW | SW17_SW_202<br>40201<br>SW |
|------------------------------------------|------------|--------------|--------|----------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |              |        |          | 06-Feb-2024<br>10:45       | 06-Feb-2024<br>12:00     | 06-Feb-2024<br>12:00       | 06-Feb-2024<br>12:30       | 06-Feb-2024<br>13:05       |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2401215-001              | TY2401215-002            | TY2401215-003              | TY2401215-004              | TY2401215-005              |
|                                          |            |              |        |          | Result                     | Result                   | Result                     | Result                     | Result                     |
| Field Tests                              |            |              |        |          |                            |                          |                            |                            |                            |
| Oxygen, dissolved, field                 | ---        | EF001/TY     | 0.01   | mg/L     | 6.61                       | ----                     | 6.61                       | 9.08                       | 7.01                       |
| pH, field                                | ---        | EF001/TY     | 0.10   | pH units | 6.89                       | ----                     | 6.89                       | 7.29                       | 7.19                       |
| Temperature, field                       | ---        | EF001/TY     | 0.10   | °C       | 3.46                       | ----                     | 3.66                       | -0.02                      | 0.19                       |
| Physical Tests                           |            |              |        |          |                            |                          |                            |                            |                            |
| Acidity (as CaCO3)                       | ---        | E283/TY      | 2.0    | mg/L     | 3.2                        | 2.9                      | 3.6                        | 3.5                        | 3.1                        |
| Colour, true                             | ---        | E329-L/TY    | 2.0    | CU       | 29.0                       | <2.0                     | 29.4                       | 54.4                       | 37.8                       |
| Conductivity                             | ---        | E100/TY      | 1.0    | µS/cm    | 75.9                       | 1.5                      | 75.2                       | 108                        | 92.4                       |
| Hardness (as CaCO3), dissolved           | ---        | EC100/TY     | 0.50   | mg/L     | 28.2                       | <0.50                    | 28.7                       | 44.7                       | 37.7                       |
| pH                                       | ---        | E108/TY      | 0.10   | pH units | 7.44                       | 6.01                     | 7.45                       | 7.52                       | 7.55                       |
| Solids, total dissolved [TDS]            | ---        | E162/TY      | 10     | mg/L     | 72                         | <10                      | 60                         | 94                         | 74                         |
| Solids, total suspended [TSS]            | ---        | E160/TY      | 3.0    | mg/L     | <3.0                       | <3.0                     | <3.0                       | 15.1                       | 3.7                        |
| Turbidity                                | ---        | E121/TY      | 0.10   | NTU      | 1.88                       | <0.10                    | 1.64                       | 9.68                       | 3.28                       |
| Alkalinity, total (as CaCO3)             | ---        | E290/TY      | 2.0    | mg/L     | 27.3                       | <2.0                     | 27.6                       | 41.1                       | 35.8                       |
| Anions and Nutrients                     |            |              |        |          |                            |                          |                            |                            |                            |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | <0.0050                    | <0.0050                  | <0.0050                    | 0.0106 <sup>±T</sup>       | 0.0080 <sup>±T</sup>       |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                    | ----                     | <0.0010                    | <0.0010                    | <0.0010                    |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 2.85                       | <0.10                    | 3.15                       | 4.54                       | 3.05                       |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.023                      | <0.020                   | 0.025                      | 0.028                      | <0.020                     |
| Kjeldahl nitrogen, total [TKN]           | ---        | E318/TY      | 0.050  | mg/L     | 0.404                      | <0.050                   | 0.377                      | 0.573                      | 0.460                      |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.088 <sup>±T</sup>        | <0.020                   | 0.093 <sup>±T</sup>        | 0.112 <sup>±T</sup>        | 0.114 <sup>±T</sup>        |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                     | <0.010                   | <0.010                     | <0.010                     | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0016                     | <0.0010                  | <0.0010                    | 0.0022                     | <0.0010                    |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 4.86                       | <0.30                    | 5.17                       | 4.95                       | 4.86                       |
| Cyanides                                 |            |              |        |          |                            |                          |                            |                            |                            |
| Cyanide, free                            | ---        | E339/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ---        | E333/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ---        | E336/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |              |        |          |                            |                          |                            |                            |                            |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40201<br>SW | FB_SW_202402<br>01<br>SW | SW06_SW_202<br>40201<br>SW | SW15_SW_202<br>40201<br>SW | SW17_SW_202<br>40201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Feb-2024<br>10:45 | 06-Feb-2024<br>12:00       | 06-Feb-2024<br>12:00     | 06-Feb-2024<br>12:30       | 06-Feb-2024<br>13:05       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401215-001        | TY2401215-002              | TY2401215-003            | TY2401215-004              | TY2401215-005              |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                   | Result                     | Result                     |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                          |                            |                            |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT  | 0.50      | mg/L | 9.69                 | <0.50                      | 9.77                     | 14.0                       | 12.3                       |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 9.98                 | <0.50                      | 10.2                     | 14.8                       | 12.4                       |                            |
| Total Metals                                 |            |            |           |      |                      |                            |                          |                            |                            |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0666               | <0.0030                    | 0.0704                   | 0.392                      | 0.137                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00039 <T           | <0.00010                   | 0.00036 <T               | 0.00060 <T                 | 0.00050 <T                 |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.00867              | 0.00026 RRV                | 0.00848                  | 0.0124                     | 0.0111                     |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                  | <0.000020                | <0.000020                  | <0.000020                  |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                | <0.000050                  | <0.000050                  |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010               | <0.010                     | <0.010                   | <0.010                     | <0.010                     |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000051 <T         | <0.0000050                 | <0.0000050               | 0.0000277 <T               | 0.0000247 <T               |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 7.45                 | <0.050                     | 7.44                     | 11.4                       | 10.4                       |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                | 0.000063                   | 0.000016                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | <0.00050                 | 0.00103 <T                 | <0.00050                   |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                 | 0.00025 <T                 | <0.00010                   |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00115 <T           | 0.00101 <T, RRV            | 0.00105 <T               | 0.00186 <T                 | 0.00125 <T                 |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.105                | <0.010                     | 0.111                    | 0.573                      | 0.231                      |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                | 0.00106 <T                 | 0.000634 <T                |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0010               | <0.0010                    | <0.0010                  | 0.0018 <T                  | 0.0014 <T                  |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 2.52                 | 0.0095 <T, RRV             | 2.55                     | 4.53                       | 3.53                       |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.00713              | 0.00022 RRV                | 0.00716                  | 0.0303                     | 0.0135                     |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050               | <0.0000050                 | <0.0000050                 |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000154 <T          | <0.000050                  | 0.000128 <T              | 0.000192 <T                | 0.000148 <T                |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00061 <T           | <0.00050                   | 0.00064 <T               | 0.00120 <T                 | 0.00078 <T                 |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                   | <0.050                     | <0.050                     |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.888                | <0.050                     | 0.891                    | 1.14                       | 1.06                       |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00192              | <0.00020                   | 0.00202                  | 0.00246                    | 0.00218                    |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000114 <T          | <0.000050                  | 0.000094 <T              | 0.000117 <T                | 0.000123 <T                |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.17                 | <0.10                      | 2.19                     | 3.53                       | 2.76                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                             |            |            |           |      | SW16_SW_202<br>40201<br>SW | FB_SW_202402<br>01<br>SW | SW06_SW_202<br>40201<br>SW | SW15_SW_202<br>40201<br>SW | SW17_SW_202<br>40201<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 06-Feb-2024<br>10:45       | 06-Feb-2024<br>12:00     | 06-Feb-2024<br>12:00       | 06-Feb-2024<br>12:30       | 06-Feb-2024<br>13:05       |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2401215-001              | TY2401215-002            | TY2401215-003              | TY2401215-004              | TY2401215-005              |
|                             |            |            |           |      | Result                     | Result                   | Result                     | Result                     | Result                     |
| Total Metals                |            |            |           |      |                            |                          |                            |                            |                            |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 3.74                       | 0.266 <sup>RRV</sup>     | 3.82                       | 4.04                       | 3.99                       |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0233                     | <0.00020                 | 0.0242                     | 0.0326                     | 0.0291                     |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.88                       | <0.50                    | 1.92                       | 1.97                       | 1.96                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                   | <0.00020                 | <0.00020                   | <0.00020                   | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  | <0.000010                  |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00195                    | <0.00030                 | <0.00273 <sup>DLM</sup>    | 0.0134                     | <0.00594 <sup>DLM</sup>    |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000105 <sup>^T</sup>     | <0.000010                | 0.000102 <sup>^T</sup>     | 0.000137 <sup>^T</sup>     | 0.000097 <sup>^T</sup>     |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                   | <0.00050                 | <0.00050                   | 0.00126                    | 0.00058                    |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                    | <0.0030                  | <0.0030                    | 0.0106                     | 0.0036 <sup>^T</sup>       |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                   | <0.00020                 | <0.00020                   | 0.00043                    | <0.00020                   |
| Dissolved Metals            |            |            |           |      |                            |                          |                            |                            |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0189                     | <0.0010                  | 0.0192                     | 0.0395                     | 0.0231                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00038                    | <0.00010                 | 0.00034                    | 0.00050                    | 0.00043                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00800                    | 0.00026 <sup>RRV</sup>   | 0.00800                    | 0.0102                     | 0.00959                    |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                  | <0.000020                | <0.000020                  | <0.000020                  | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                | <0.000050                  | <0.000050                  | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                     | <0.010                   | <0.010                     | <0.010                     | <0.010                     |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                 | <0.0000050               | <0.0000050                 | 0.0000052                  | 0.0000062                  |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 7.19                       | <0.050                   | 7.24                       | 10.8                       | 9.48                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                   | <0.00050                 | <0.00050                   | <0.00050                   | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00101                    | 0.00092 <sup>RRV</sup>   | 0.00089                    | 0.00113                    | 0.00094                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.042                      | <0.010                   | 0.042                      | 0.123                      | 0.074                      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40201<br>SW | FB_SW_202402<br>01<br>SW | SW06_SW_202<br>40201<br>SW | SW15_SW_202<br>40201<br>SW | SW17_SW_202<br>40201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Feb-2024<br>10:45 | 06-Feb-2024<br>12:00       | 06-Feb-2024<br>12:00     | 06-Feb-2024<br>12:30       | 06-Feb-2024<br>13:05       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401215-001        | TY2401215-002              | TY2401215-003            | TY2401215-004              | TY2401215-005              |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                   | Result                     | Result                     |                            |
| Dissolved Metals                             |            |            |           |      |                      |                            |                          |                            |                            |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                | 0.000082                   | <0.000050                  |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | <0.0010              | <0.0010                    | <0.0010                  | 0.0014                     | 0.0012                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 2.49                 | 0.0096 <sup>RRV</sup>      | 2.58                     | 4.30                       | 3.41                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00115              | 0.00014 <sup>RRV</sup>     | 0.00112                  | 0.0146                     | 0.00324                    |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050               | <0.0000050                 | <0.0000050                 |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000121             | <0.000050                  | 0.000120                 | 0.000162                   | 0.00202 <sup>DTC</sup>     |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00054              | <0.00050                   | 0.00053                  | 0.00070                    | 0.00057                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                   | <0.050                     | <0.050                     |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.865                | <0.050                     | 0.898                    | 1.06                       | 0.978                      |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00186              | <0.00020                   | 0.00192                  | 0.00168                    | 0.00177                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000116             | <0.000050                  | 0.000119                 | 0.000139                   | 0.000105                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 2.03                 | <0.050                     | 2.02                     | 2.81                       | 2.48                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 3.76                 | 0.273 <sup>RRV</sup>       | 3.88                     | 4.13                       | 3.84                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0224               | <0.00020                   | 0.0234                   | 0.0314                     | 0.0268                     |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 1.74                 | <0.50                      | 1.74                     | 1.80                       | 1.96                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                 | <0.00020                   | <0.00020                   |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                   | 0.00034                  | 0.00148                    | <0.00078 <sup>DLM</sup>    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000094             | <0.000010                  | 0.000096                 | 0.000120                   | 0.000088                   |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | <0.00050                 | <0.00050                   | <0.00050                   |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0017               | <0.0010                    | <0.0010                  | 0.0046                     | 0.0015                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                   | <0.00030                 | <0.00030                   | <0.00030                   |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                 | Laboratory               | Laboratory                 | Laboratory                 |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Field                      | Laboratory               | Laboratory                 | Laboratory                 |                            |
| Aggregate Organics                           |            |            |           |      |                      |                            |                          |                            |                            |                            |



Analytical Results

|                                              |            |            |     |      |                             |                            |                          |                            |                            |                            |
|----------------------------------------------|------------|------------|-----|------|-----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |     |      | Client sample ID            | SW16_SW_202<br>40201<br>SW | FB_SW_202402<br>01<br>SW | SW06_SW_202<br>40201<br>SW | SW15_SW_202<br>40201<br>SW | SW17_SW_202<br>40201<br>SW |
|                                              |            |            |     |      | Client sampling date / time | 06-Feb-2024<br>10:45       | 06-Feb-2024<br>12:00     | 06-Feb-2024<br>12:00       | 06-Feb-2024<br>12:30       | 06-Feb-2024<br>13:05       |
| Analyte                                      | CAS Number | Method/Lab | LOR | Unit | TY2401215-001               | TY2401215-002              | TY2401215-003            | TY2401215-004              | TY2401215-005              |                            |
|                                              |            |            |     |      | Result                      | Result                     | Result                   | Result                     | Result                     |                            |
| Aggregate Organics                           |            |            |     |      |                             |                            |                          |                            |                            |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0 | mg/L | <2.0                        | <2.0                       | <2.0                     | <2.0                       | <2.0                       |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10  | mg/L | 23                          | <10                        | 27                       | 38                         | 28                         |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0 | mg/L | 1.5                         | <1.0                       | <1.0                     | 1.5                        | <1.0                       |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        | Client sample ID | SW23_SW_202<br>40201<br>SW | SW24_SW_202<br>40201<br>SW | SW29A_SW_20<br>240201<br>SW | SW03_SW_202<br>40201<br>SW | TB_SW_20240<br>201<br>SW |
|----------------------------------------------|------------|--------------|--------|------------------|----------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|
| Client sampling date / time                  |            |              |        |                  | 06-Feb-2024<br>13:50       | 06-Feb-2024<br>14:00       | 06-Feb-2024<br>14:30        | 06-Feb-2024<br>14:50       | 06-Feb-2024<br>00:01     |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit             | TY2401215-006              | TY2401215-007              | TY2401215-008               | TY2401215-009              | TY2401215-010            |
|                                              |            |              |        |                  | Result                     | Result                     | Result                      | Result                     | Result                   |
| Field Tests                                  |            |              |        |                  |                            |                            |                             |                            |                          |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L             | 3.54                       | 2.63                       | 2.81                        | 2.63                       | ----                     |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units         | 7.01                       | 7.05                       | 7.11                        | 7.05                       | ----                     |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C               | -0.20                      | 0.77                       | -0.20                       | 0.77                       | ----                     |
| Physical Tests                               |            |              |        |                  |                            |                            |                             |                            |                          |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L             | 10.7                       | 11.2                       | 7.0                         | 9.1                        | 2.9                      |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU               | 109                        | 118                        | 48.6                        | 100                        | <2.0                     |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm            | 398                        | 425                        | 329                         | 464                        | 1.1                      |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L             | 203                        | 215                        | 174                         | 222                        | <0.50                    |
| pH                                           | ----       | E108/TY      | 0.10   | pH units         | 7.71                       | 7.74                       | 7.79                        | 7.80                       | 5.43                     |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L             | 276                        | 299                        | 217                         | 304                        | <10                      |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L             | 7.7                        | 11.1                       | 17.1                        | 10.7                       | <3.0                     |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU              | 12.3                       | 14.9                       | 10.5                        | 14.0                       | <0.10                    |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L             | 204                        | 222                        | 183                         | 207                        | <2.0                     |
| Anions and Nutrients                         |            |              |        |                  |                            |                            |                             |                            |                          |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L             | 0.124 <sup>&lt;T</sup>     | 0.124 <sup>&lt;T</sup>     | 0.148                       | 0.156 <sup>&lt;T</sup>     | <0.0050                  |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L             | <0.0010                    | <0.0010                    | <0.0010                     | <0.0010                    | ----                     |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L             | 12.4                       | 12.9                       | 1.48                        | 23.6                       | <0.10                    |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L             | 0.042                      | 0.046                      | <0.020                      | 0.047                      | <0.020                   |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L             | 1.39                       | 1.33                       | 1.01                        | 1.32                       | <0.050                   |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L             | 0.044 <sup>&lt;T</sup>     | 0.046 <sup>&lt;T</sup>     | 0.048                       | <0.020                     | <0.020                   |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L             | <0.010                     | <0.010                     | <0.010                      | <0.010                     | <0.010                   |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L             | 0.0343                     | 0.0342                     | 0.0107                      | 0.0834                     | <0.0010                  |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L             | 6.56                       | 7.07                       | 3.08                        | 9.36                       | <0.30                    |
| Cyanides                                     |            |              |        |                  |                            |                            |                             |                            |                          |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L             | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L             | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L             | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  |
| Organic / Inorganic Carbon                   |            |              |        |                  |                            |                            |                             |                            |                          |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L             | 27.9                       | 31.7                       | 20.7                        | 27.0                       | <0.50                    |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW23_SW_202<br>40201<br>SW | SW24_SW_202<br>40201<br>SW | SW29A_SW_20<br>240201<br>SW | SW03_SW_202<br>40201<br>SW | TB_SW_20240<br>201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Feb-2024<br>13:50 | 06-Feb-2024<br>14:00       | 06-Feb-2024<br>14:30       | 06-Feb-2024<br>14:50        | 06-Feb-2024<br>00:01       |                          |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401215-006        | TY2401215-007              | TY2401215-008              | TY2401215-009               | TY2401215-010              |                          |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                      | Result                     |                          |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                            |                             |                            |                          |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 28.7                 | 31.9                       | 21.2                       | 27.1                        | <0.50                      |                          |
| Total Metals                                 |            |            |           |      |                      |                            |                            |                             |                            |                          |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.363                | 0.459                      | 0.527                      | 0.416                       | <0.0030                    |                          |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00016 <T           | 0.00017 <T                 | <0.00010                   | 0.00014 <T                  | <0.00010                   |                          |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00130 <T           | 0.00151 <T                 | 0.00081                    | 0.00140 <T                  | <0.00010                   |                          |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0201               | 0.0217                     | 0.0261                     | 0.0276                      | <0.00010                   |                          |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | 0.000026 <T          | 0.000036 <T                | <0.000020                  | 0.000028 <T                 | <0.000020                  |                          |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                  |                          |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.014 <T             | 0.017 <T                   | <0.010                     | 0.016 <T                    | <0.010                     |                          |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000268 <T         | 0.0000361 <T               | 0.0000196                  | 0.0000206 <T                | <0.0000050                 |                          |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 47.3                 | 51.9                       | 39.9                       | 52.4                        | <0.050                     |                          |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000048             | 0.000054                   | 0.000083                   | 0.000050                    | <0.000010                  |                          |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00091 <T           | 0.00128 <T                 | 0.00092                    | 0.00098 <T                  | <0.00050                   |                          |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00087 <T           | 0.00093 <T                 | 0.00090                    | 0.00148 <T                  | <0.00010                   |                          |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00146 <T           | 0.00179 <T                 | 0.00104                    | 0.00164 <T                  | <0.00050                   |                          |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 1.69                 | 1.85                       | 1.58                       | 2.02                        | <0.010                     |                          |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000394 <T          | 0.000419 <T                | 0.000289                   | 0.000348 <T                 | <0.000050                  |                          |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0068 <T            | 0.0072 <T                  | 0.0055                     | 0.0077 <T                   | <0.0010                    |                          |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 19.7                 | 21.2                       | 18.3                       | 21.8                        | <0.0050                    |                          |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.478                | 0.510                      | 0.298                      | 1.42                        | <0.00010                   |                          |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |                          |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000417 <T          | 0.000470 <T                | 0.000152                   | 0.000504 <T                 | <0.000050                  |                          |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00237 <T           | 0.00271 <T                 | 0.00168                    | 0.00244 <T                  | <0.00050                   |                          |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | 0.084                | 0.087                      | 0.058                      | 0.139                       | <0.050                     |                          |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 2.83                 | 3.17                       | 1.59                       | 3.51                        | <0.050                     |                          |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00254              | 0.00289                    | 0.00303                    | 0.00276                     | <0.00020                   |                          |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000172 <T          | 0.000168 <T                | 0.000125                   | 0.000155 <T                 | <0.000050                  |                          |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 8.24                 | 9.33                       | 8.60                       | 8.62                        | <0.10                      |                          |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                          |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW23_SW_202<br>40201<br>SW | SW24_SW_202<br>40201<br>SW | SW29A_SW_20<br>240201<br>SW | SW03_SW_202<br>40201<br>SW | TB_SW_20240<br>201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Feb-2024<br>13:50      | 06-Feb-2024<br>14:00       | 06-Feb-2024<br>14:30       | 06-Feb-2024<br>14:50        | 06-Feb-2024<br>00:01       |                          |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401215-006             | TY2401215-007              | TY2401215-008              | TY2401215-009               | TY2401215-010              |                          |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                      | Result                     |                          |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                             |                            |                          |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 6.64                      | 7.23                       | 3.12                       | 10.8                        | <0.050                     |                          |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.113                     | 0.120                      | 0.0787                     | 0.133                       | <0.00020                   |                          |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 3.06                      | 3.23                       | 1.50                       | 4.03                        | <0.50                      |                          |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                    | <0.00020                   |                          |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                          |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | 0.00011                    | <0.00010                   | <0.00010                    | <0.00010                   |                          |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                          |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.0137                    | 0.0170                     | 0.0484                     | 0.0152                      | <0.00030                   |                          |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                          |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000937 <sup>&lt;T</sup> | 0.00102 <sup>&lt;T</sup>   | 0.000667                   | 0.00104 <sup>&lt;T</sup>    | <0.000010                  |                          |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00155                   | 0.00180                    | 0.00192                    | 0.00172                     | <0.00050                   |                          |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0056 <sup>&lt;T</sup>   | 0.0107                     | 0.0076                     | 0.0060 <sup>&lt;T</sup>     | <0.0030                    |                          |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00064                   | 0.00070                    | 0.00026                    | 0.00056                     | <0.00020                   |                          |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                             |                            |                          |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0274                    | 0.0293                     | 0.0075                     | 0.0172                      | <0.0010                    |                          |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | 0.00015                   | 0.00014                    | <0.00010                   | 0.00011                     | <0.00010                   |                          |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00114                   | 0.00122                    | 0.00066                    | 0.00126                     | <0.00010                   |                          |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0151                    | 0.0169                     | 0.0151                     | 0.0228                      | <0.00010                   |                          |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                   | <0.000020                  |                          |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                  |                          |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.013                     | 0.014                      | <0.010                     | 0.015                       | <0.010                     |                          |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000123                 | 0.0000143                  | <0.0000050                 | 0.0000133                   | <0.0000050                 |                          |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 47.9                      | 50.4                       | 39.3                       | 53.3                        | <0.050                     |                          |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                          |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                    | <0.00050                   |                          |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00029                   | 0.00042                    | 0.00012                    | 0.00101                     | <0.00010                   |                          |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00113                   | 0.00132                    | 0.00048                    | 0.00139                     | <0.00020                   |                          |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.836                     | 0.894                      | 0.332                      | 1.12                        | <0.010                     |                          |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000122                  | 0.000141                   | <0.000050                  | 0.000131                    | <0.000050                  |                          |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW23_SW_202<br>40201<br>SW | SW24_SW_202<br>40201<br>SW | SW29A_SW_20<br>240201<br>SW | SW03_SW_202<br>40201<br>SW | TB_SW_20240<br>201<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Feb-2024<br>13:50 | 06-Feb-2024<br>14:00       | 06-Feb-2024<br>14:30       | 06-Feb-2024<br>14:50        | 06-Feb-2024<br>00:01       |                          |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2401215-006        | TY2401215-007              | TY2401215-008              | TY2401215-009               | TY2401215-010              |                          |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                      | Result                     |                          |
| Dissolved Metals                             |            |            |           |      |                      |                            |                            |                             |                            |                          |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0060               | 0.0069                     | 0.0044                     | 0.0075                      | <0.0010                    |                          |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 20.3                 | 21.7                       | 18.5                       | 21.7                        | <0.0050                    |                          |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.122                | 0.185                      | 0.00183                    | 1.20                        | <0.00010                   |                          |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |                          |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000423             | 0.000509                   | 0.000162                   | 0.000490                    | <0.000050                  |                          |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00190              | 0.00208                    | 0.00101                    | 0.00188                     | <0.00050                   |                          |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                     | 0.085                       | <0.050                     |                          |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 2.91                 | 3.14                       | 1.31                       | 3.48                        | <0.050                     |                          |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00187              | 0.00206                    | 0.00148                    | 0.00188                     | <0.00020                   |                          |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000236             | 0.000232                   | 0.000174                   | 0.000216                    | <0.000050                  |                          |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 7.52                 | 8.25                       | 7.42                       | 7.25                        | <0.050                     |                          |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                          |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 6.87                 | 7.33                       | 3.22                       | 10.5                        | <0.050                     |                          |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.111                | 0.120                      | 0.0799                     | 0.130                       | <0.00020                   |                          |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 2.90                 | 3.17                       | 1.43                       | 3.67                        | <0.50                      |                          |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                   | <0.00020                    | <0.00020                   |                          |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | 0.000010             | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                  |                          |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                          |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                          |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00276              | 0.00314                    | 0.00051                    | 0.00237                     | <0.00030                   |                          |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                   |                          |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000974             | 0.000988                   | 0.000643                   | 0.000940                    | <0.000010                  |                          |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | 0.00057              | 0.00066                    | <0.00050                   | 0.00062                     | <0.00050                   |                          |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0025               | 0.0053                     | 0.0012                     | 0.0033                      | <0.0010                    |                          |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | 0.00043              | 0.00050                    | <0.00030                   | 0.00048                     | <0.00030                   |                          |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                 | Laboratory                 | Laboratory                  | Field                      |                          |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                 | Laboratory                 | Laboratory                  | Field                      |                          |
| Aggregate Organics                           |            |            |           |      |                      |                            |                            |                             |                            |                          |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                 | <2.0                       | <2.0                       | <2.0                        | <2.0                       |                          |





Analytical Results

|                                              |            |            |       |      |                  |                            |                            |                             |                            |                          |
|----------------------------------------------|------------|------------|-------|------|------------------|----------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW23_SW_202<br>40201<br>SW | SW24_SW_202<br>40201<br>SW | SW29A_SW_20<br>240201<br>SW | SW03_SW_202<br>40201<br>SW | TB_SW_20240<br>201<br>SW |
| Client sampling date / time                  |            |            |       |      |                  | 06-Feb-2024<br>13:50       | 06-Feb-2024<br>14:00       | 06-Feb-2024<br>14:30        | 06-Feb-2024<br>14:50       | 06-Feb-2024<br>00:01     |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2401215-006    | TY2401215-007              | TY2401215-008              | TY2401215-009               | TY2401215-010              |                          |
|                                              |            |            |       |      | Result           | Result                     | Result                     | Result                      | Result                     |                          |
| Aggregate Organics                           |            |            |       |      |                  |                            |                            |                             |                            |                          |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 73               | 82                         | 54                         | 80                          | <10                        |                          |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | 1.2              | 1.3                        | <1.0                       | 1.1                         | 2.0                        |                          |
| Radiological Parameters                      |            |            |       |      |                  |                            |                            |                             |                            |                          |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | <0.005           | <0.005                     | ----                       | ----                        | ----                       |                          |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

SRC Group # 2024-1906

Feb 27, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Feb-16-2024

Client P.O.: TY2401215

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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 Snook, Vicky

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- \* 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 # 2024-1906

Feb 27, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2024006486**  
Date Sampled: **Feb 06, 2024**  
Sample Matrix: **WATER**  
Description: **02/06/2024 12:50 SW23\_SW\_20240201 TY2401215-006**

Client PO #: **TY2401215**  
Date Received: **Feb 16, 2024**

| 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 11.3 °C upon receipt.

**SRC Group # 2024-1906**

Feb 27, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024006487** Client PO #: **TY2401215**  
Date Sampled: **Feb 06, 2024** Date Received: **Feb 16, 2024**  
Sample Matrix: **WATER**  
Description: **02/06/2024 13:00 SW24\_SW\_20240201 TY2401215-007**

| 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 11.3 °C upon receipt.

SRC Group # 2024-1906

Feb 27, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

**COC No: ALS-453286798**



Telephone : +1 807 623 6463

of 2

[illegible]

| Additional Comments/Special Instructions:                  |  | RELINQUISHED BY / AFFILIATION | Date Time | ACCEPTED BY / AFFILIATION | Date Time |
|------------------------------------------------------------|--|-------------------------------|-----------|---------------------------|-----------|
| Received by LV Manitoulin<br>2/9/24 8:55 330292374         |  |                               |           |                           |           |
| 6 Coolers Temps. 7.3, 6.1, 6.8<br>+ ice pack 7.1, 5.8, 5.8 |  |                               |           |                           |           |
| SHIPPING METHOD: (mark as appropriate)                     |  | SAMPLER NAME AND SIGNATURE    |           | Date Time                 |           |
| Email Report To : rainyriver.labresults@newgold.com        |  |                               |           |                           |           |
| Email Invoice To : rainyriver.accounts1@newgold.com        |  |                               |           |                           |           |

**COC No: ALS-453286798**

Cooler No. of

[illegible]

| Additional Comments/Special Instructions:           |  | RELINQUISHED BY / AFFILIATION          | Date Time | ACCEPTED BY / AFFILIATION  | Date Time |
|-----------------------------------------------------|--|----------------------------------------|-----------|----------------------------|-----------|
| LU<br>2/9/24 8:55                                   |  |                                        |           |                            |           |
|                                                     |  |                                        |           |                            |           |
|                                                     |  | SHIPPING METHOD: (mark as appropriate) |           | SAMPLER NAME AND SIGNATURE | Date Time |
| Email Report To : rainyriver.labresults@newgold.com |  |                                        |           |                            |           |
| Email Invoice To : rainyriver.accounts1@newgold.com |  |                                        |           |                            |           |

# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                          |                                     |                                            |              | ACCOUNT INFO VERIFICATION                                  |                                                                           |                                           |
|----------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|--------------|------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------|
| Priority/Emergency Service Requested         | YES                                      | <input checked="" type="radio"/> NO |                                            |              | Priority/Emergency Service Requested                       | YES                                                                       | <input checked="" type="radio"/> NO       |
| Time Sensitive Hold Time                     | YES                                      | <input checked="" type="radio"/> NO |                                            |              | Confirmed all as accurate as per COC, Sample Remarks or PM |                                                                           |                                           |
| Client:                                      | New Gold                                 |                                     |                                            |              | Client                                                     | Work Contact                                                              | Quote                                     |
| SAMPLE RECEIPT INFORMATION                   |                                          |                                     |                                            |              | RECEIPT DETAIL                                             |                                                                           |                                           |
| Mode of Delivery:                            | <input checked="" type="radio"/> Courier | Drop Off                            |                                            |              | Project                                                    | <input checked="" type="radio"/> PO                                       | Site/LSD <input checked="" type="radio"/> |
| Courier                                      | Manitowish                               |                                     |                                            |              | Overall Description Entered                                | Yes                                                                       | <input checked="" type="radio"/> NA       |
| Waybill Number                               | 330292374                                |                                     |                                            |              | Received date/time as per COC                              | <input checked="" type="radio"/>                                          |                                           |
| Temperature                                  |                                          |                                     |                                            | Cooler Count | 6                                                          |                                                                           |                                           |
| Cooling Method                               | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs |              | Recipients match CoC or Sample Remarks                     | <input checked="" type="radio"/> Yes                                      | No                                        |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                          |                                     |                                            |              | Billing Instruction added to remarks                       | <input checked="" type="radio"/> Yes                                      | NA                                        |
| Matrix:                                      | <input checked="" type="radio"/> Water   | Soil                                | Air                                        | Biota        | Other                                                      | Sample Remarks/Specification Doc checked <input checked="" type="radio"/> |                                           |
| DW Schedule 24 Bottles Correct?              |                                          |                                     |                                            | Yes          | No                                                         | Submission Issues communicated                                            |                                           |
| DW Metals pH Check <2                        |                                          |                                     |                                            | Yes          | No                                                         | Sample Info communicated via Remarks                                      |                                           |
| Regulation Circled, Works # present          | Yes                                      | No Reject?                          |                                            |              | Yes                                                        |                                                                           |                                           |
| # of Bottles:                                | 11                                       | Sample Count                        | 10                                         |              | Sample Info communicated via Remarks                       |                                                                           |                                           |
| Green/white                                  | 10 Routine, 10 BGD                       |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Purple/white                                 | 10 Nuts, 10 Toc, 10 Doc                  |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Warm red/white                               | 10 Tot. Metals, 10 Diss. Metals          |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Yellow/black                                 | 10 Tot. Hg, 10 Diss. Hg                  |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Light blue/white                             |                                          |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Orange/black                                 |                                          |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Others (detail)                              | 10 Cyanide<br>10x2 OGG<br>2 Radium       |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Comments on Samples and Bottles:             |                                          |                                     |                                            |              | Validation                                                 |                                                                           |                                           |
| Travel blank added                           |                                          |                                     |                                            |              | Validation errors resolved?                                |                                                                           |                                           |
| Samples Requiring Preservation or Filtering: |                                          |                                     |                                            |              | Internal Sublet CoC created                                |                                                                           |                                           |
| DOC, Diss. Metals, Diss. Hg → FP             |                                          |                                     |                                            |              | Yes                                                        |                                                                           |                                           |
| Layout Staff Initials                        | LV 219124 10:20                          |                                     |                                            |              | No                                                         |                                                                           |                                           |
| Date and Time of Layout                      |                                          |                                     |                                            |              | Login Comments:                                            |                                                                           |                                           |
|                                              |                                          |                                     |                                            |              | Login Staff Initials:                                      |                                                                           |                                           |
|                                              |                                          |                                     |                                            |              | MM                                                         |                                                                           |                                           |



## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2402177                                          | Page                    | : 1 of 17                                             |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                      | Date Samples Received   | : 08-Mar-2024 09:00                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 08-Mar-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 02-Apr-2024 15:40                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 15                                                 |                         |                                                       |
| No. of samples analysed | : 15                                                 |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                               | Laboratory Department                            |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Administration, Thunder Bay, Ontario             |
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics               | Metals, Thunder Bay, Ontario                     |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Mingjian Yang        | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Nik Perkio           | Inorganics Analyst                     | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Inorganics Analyst                     | Metals, Waterloo, Ontario                        |
| Niki Goebel          | Inorganics Analyst                     | Metals, Waterloo, Ontario                        |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario                 |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                         |
|-----------|-----------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution. |
| RRV       | Reported result verified by repeat analysis.        |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                          |            |              |        |          | SW16_SW_202<br>40301<br>SW | FB_SW_202403<br>01<br>SW | SW06_SW_202<br>40301<br>SW  | SW17_SW_202<br>40301<br>SW | SW15_SW_202<br>40301<br>SW |
|------------------------------------------|------------|--------------|--------|----------|----------------------------|--------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |              |        |          | 05-Mar-2024<br>11:10       | 05-Mar-2024<br>12:00     | 05-Mar-2024<br>12:00        | 05-Mar-2024<br>12:30       | 05-Mar-2024<br>13:10       |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2402177-001              | TY2402177-002            | TY2402177-003               | TY2402177-004              | TY2402177-005              |
|                                          |            |              |        |          | Result                     | Result                   | Result                      | Result                     | Result                     |
| Field Tests                              |            |              |        |          |                            |                          |                             |                            |                            |
| Oxygen, dissolved, field                 | ----       | EF001/TY     | 0.01   | mg/L     | 12.4                       | ----                     | 9.74                        | 12.6                       | 9.74                       |
| pH, field                                | ----       | EF001/TY     | 0.10   | pH units | 7.91                       | ----                     | 7.34                        | 7.53                       | 7.34                       |
| Temperature, field                       | ----       | EF001/TY     | 0.10   | °C       | 2.17                       | ----                     | 0.13                        | 0.23                       | 0.13                       |
| Physical Tests                           |            |              |        |          |                            |                          |                             |                            |                            |
| Acidity (as CaCO3)                       | ----       | E283/TY      | 2.0    | mg/L     | 2.7                        | 2.5                      | 4.5                         | 2.9                        | 3.7                        |
| Colour, true                             | ----       | E329-L/TY    | 2.0    | CU       | 33.6                       | <2.0                     | 105                         | 39.7                       | 110                        |
| Conductivity                             | ----       | E100/TY      | 1.0    | µS/cm    | 87.9                       | 1.2                      | 310                         | 96.5                       | 313                        |
| Hardness (as CaCO3), dissolved           | ----       | EC100/TY     | 0.50   | mg/L     | 31.8                       | <0.50                    | 151                         | 39.0                       | 152                        |
| pH                                       | ----       | E108/TY      | 0.10   | pH units | 7.56                       | 5.95                     | 7.68                        | 7.56                       | 7.70                       |
| Solids, total dissolved [TDS]            | ----       | E162/TY      | 10     | mg/L     | 70                         | <10                      | 217                         | 72                         | 213                        |
| Solids, total suspended [TSS]            | ----       | E160/TY      | 3.0    | mg/L     | 12.0                       | <3.0                     | 20.0                        | 6.8                        | 17.8                       |
| Turbidity                                | ----       | E121/TY      | 0.10   | NTU      | 9.62                       | <0.10                    | 18.6                        | 4.33                       | 19.5                       |
| Alkalinity, total (as CaCO3)             | ----       | E290/TY      | 2.0    | mg/L     | 30.0                       | <2.0                     | 137                         | 37.4                       | 142                        |
| Anions and Nutrients                     |            |              |        |          |                            |                          |                             |                            |                            |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0213 <sup>&lt;T</sup>    | <0.0050 <sup>RRV</sup>   | 0.234 <sup>&lt;T, RRV</sup> | 0.0118 <sup>&lt;T</sup>    | 0.226 <sup>&lt;T</sup>     |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                    | ----                     | <0.0010                     | <0.0010                    | <0.0010                    |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 5.17                       | <0.10                    | 12.6                        | 4.20                       | 10.4                       |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.026                      | <0.020                   | <0.020                      | 0.032                      | 0.068                      |
| Kjeldahl nitrogen, total [TKN]           | ----       | E318/TY      | 0.050  | mg/L     | 0.448                      | <0.050                   | 1.42                        | 0.389                      | 1.39                       |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.098 <sup>&lt;T</sup>     | <0.020                   | 0.470                       | 0.087 <sup>&lt;T</sup>     | 0.460                      |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                     | <0.010                   | <0.010                      | <0.010                     | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0030                     | <0.0010                  | 0.0895 <sup>RRV</sup>       | 0.0020                     | 0.0917 <sup>RRV</sup>      |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 4.64                       | <0.30                    | 14.9                        | 4.77                       | 14.5                       |
| Cyanides                                 |            |              |        |          |                            |                          |                             |                            |                            |
| Cyanide, free                            | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                  | <0.0020                     | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                  | <0.0020                     | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                  | <0.0020                     | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |              |        |          |                            |                          |                             |                            |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40301<br>SW | FB_SW_202403<br>01<br>SW | SW06_SW_202<br>40301<br>SW | SW17_SW_202<br>40301<br>SW | SW15_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 05-Mar-2024<br>11:10 | 05-Mar-2024<br>12:00       | 05-Mar-2024<br>12:00     | 05-Mar-2024<br>12:30       | 05-Mar-2024<br>13:10       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2402177-001        | TY2402177-002              | TY2402177-003            | TY2402177-004              | TY2402177-005              |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                   | Result                     | Result                     |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                          |                            |                            |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT  | 0.50      | mg/L | 10.8                 | <0.50                      | 23.0                     | 11.6                       | 22.2                       |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 10.1                 | <0.50                      | 23.8                     | 11.7                       | 24.5                       |                            |
| Total Metals                                 |            |            |           |      |                      |                            |                          |                            |                            |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.224                | <0.0030                    | 0.553                    | 0.133                      | 0.554                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | 0.00020 <T               | <0.00010                   | 0.00021 <T                 |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00051 <T           | <0.00010                   | 0.00120 <T               | 0.00047 <T                 | 0.00115 <T                 |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0112               | 0.00011 RRV                | 0.0251                   | 0.0112                     | 0.0254                     |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                  | 0.000031 <T              | <0.000020                  | 0.000028 <T                |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                | <0.000050                  | <0.000050                  |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010               | <0.010                     | 0.019 <T                 | <0.010                     | 0.018 <T                   |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000083 <T         | <0.0000050                 | 0.0000276 <T             | 0.0000174 <T               | 0.0000235 <T               |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 8.58                 | <0.050                     | 34.3                     | 10.9                       | 34.0                       |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000052             | <0.000010                  | 0.000077                 | 0.000025                   | 0.000074                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00068 <T           | <0.00050                   | 0.00126 <T               | 0.00055 <T                 | 0.00117 <T                 |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00018 <T           | <0.00010                   | 0.00047 <T               | 0.00012 <T                 | 0.00046 <T                 |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00439 <T           | <0.00050                   | 0.00289 <T               | 0.00126 <T                 | 0.00276 <T                 |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.361                | <0.010                     | 1.07                     | 0.260                      | 1.06                       |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000217 <T          | <0.000050                  | 0.000426 <T              | 0.000166 <T                | 0.000419 <T                |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0012 <T            | <0.0010                    | 0.0075 <T                | 0.0016 <T                  | 0.0076 <T                  |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 2.66                 | 0.0066 <T, RRV             | 15.6                     | 3.41                       | 15.4                       |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0130               | 0.00010 RRV                | 0.0838                   | 0.0150                     | 0.0836                     |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050               | <0.0000050                 | <0.0000050                 |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000215 <T          | <0.000050                  | 0.000878 <T              | 0.000183 <T                | 0.000897 <T                |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00107 <T           | <0.00050                   | 0.00236 <T               | 0.00081 <T                 | 0.00236 <T                 |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                     | 0.203                    | <0.050                     | 0.217                      |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.14                 | <0.050                     | 4.43                     | 1.08                       | 4.50                       |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00275              | <0.00020                   | 0.00424                  | 0.00222                    | 0.00415                    |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000146 <T          | <0.000050                  | 0.000328 <T              | 0.000123 <T                | 0.000258 <T                |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.49                 | <0.10                      | 5.76                     | 2.49                       | 5.82                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                             |            |            |           |      | SW16_SW_202<br>40301<br>SW | FB_SW_202403<br>01<br>SW | SW06_SW_202<br>40301<br>SW | SW17_SW_202<br>40301<br>SW | SW15_SW_202<br>40301<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 05-Mar-2024<br>11:10       | 05-Mar-2024<br>12:00     | 05-Mar-2024<br>12:00       | 05-Mar-2024<br>12:30       | 05-Mar-2024<br>13:10       |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2402177-001              | TY2402177-002            | TY2402177-003              | TY2402177-004              | TY2402177-005              |
|                             |            |            |           |      | Result                     | Result                   | Result                     | Result                     | Result                     |
| Total Metals                |            |            |           |      |                            |                          |                            |                            |                            |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                | 0.000011 <sup>^T</sup>     | <0.000010                  | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 4.34                       | 0.203 <sup>RRV</sup>     | 4.90                       | 3.92                       | 4.72                       |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0255                     | <0.00020                 | 0.0750                     | 0.0283                     | 0.0752                     |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.60                       | <0.50                    | 4.86                       | 1.65                       | 4.99                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                   | <0.00020                 | <0.00020                   | <0.00020                   | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | 0.000014 <sup>^T</sup>     | <0.000010                | 0.000010                   | <0.000010                  | 0.000010                   |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | 0.00012                    | <0.00010                   | 0.00011                    |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                   | 0.00027 <sup>RRV</sup>   | 0.00020                    | <0.00010                   | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00763                    | <0.00030                 | 0.0186                     | 0.00433                    | 0.0176                     |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000129 <sup>^T</sup>     | <0.000010                | 0.00134 <sup>^T</sup>      | 0.000138 <sup>^T</sup>     | 0.00140 <sup>^T</sup>      |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00111                    | <0.00050                 | 0.00240                    | 0.00075                    | 0.00233                    |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0053 <sup>^T</sup>       | <0.0030                  | 0.0079 <sup>^T</sup>       | <0.0030                    | 0.0065 <sup>^T</sup>       |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00032                    | <0.00020                 | 0.00067                    | <0.00020                   | 0.00066                    |
| Dissolved Metals            |            |            |           |      |                            |                          |                            |                            |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0220                     | <0.0010                  | 0.0350                     | 0.0164                     | 0.0358                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | 0.00017                    | <0.00010                   | 0.00016                    |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00038                    | <0.00010                 | 0.00094                    | 0.00042                    | 0.00098                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00885                    | <0.00010                 | 0.0203                     | 0.0100                     | 0.0208                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                  | <0.000020                | <0.000020                  | <0.000020                  | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                | <0.000050                  | <0.000050                  | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                     | <0.010                   | 0.017                      | <0.010                     | 0.016                      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                 | <0.0000050               | 0.0000107                  | 0.0000075                  | 0.0000085                  |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 8.50                       | <0.050                   | 34.2                       | 10.3                       | 34.7                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                   | <0.00050                 | <0.00050                   | <0.00050                   | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00241                    | <0.00020                 | 0.00210                    | 0.00092                    | 0.00196                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.050                      | <0.010                   | 0.290                      | 0.063                      | 0.288                      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40301<br>SW | FB_SW_202403<br>01<br>SW | SW06_SW_202<br>40301<br>SW | SW17_SW_202<br>40301<br>SW | SW15_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 05-Mar-2024<br>11:10 | 05-Mar-2024<br>12:00       | 05-Mar-2024<br>12:00     | 05-Mar-2024<br>12:30       | 05-Mar-2024<br>13:10       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2402177-001        | TY2402177-002              | TY2402177-003            | TY2402177-004              | TY2402177-005              |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                   | Result                     | Result                     |                            |
| Dissolved Metals                             |            |            |           |      |                      |                            |                          |                            |                            |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | 0.000087                 | <0.000050                  | 0.000091                   |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0012               | <0.0010                    | 0.0066                   | 0.0013                     | 0.0064                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 2.58                 | 0.0062 <sup>RRV</sup>      | 15.9                     | 3.22                       | 15.8                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00050              | <0.00010                   | 0.00118                  | 0.00044                    | 0.00108                    |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050               | <0.0000050                 | <0.0000050                 |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000206             | <0.000050                  | 0.000932                 | 0.000199                   | 0.000929                   |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00063              | <0.00050                   | 0.00160                  | 0.00064                    | 0.00160                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | 0.125                    | <0.050                     | 0.134                      |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.04                 | <0.050                     | 4.43                     | 1.06                       | 4.65                       |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00209              | <0.00020                   | 0.00287                  | 0.00193                    | 0.00293                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000131             | <0.000050                  | 0.000267                 | 0.000131                   | 0.000253                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.95                 | <0.050                     | 4.46                     | 2.17                       | 4.42                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 4.24                 | 0.178 <sup>RRV</sup>       | 4.56                     | 3.68                       | 4.56                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0238               | <0.00020                   | 0.0786                   | 0.0293                     | 0.0798                     |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 1.45                 | <0.50                      | 4.91                     | 1.53                       | 4.78                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                 | <0.00020                   | <0.00020                   |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                | <0.000010                  | <0.000010                  |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | 0.00026 <sup>RRV</sup>     | <0.00010                 | <0.00010                   | <0.00010                   |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00158              | <0.00030                   | 0.00438                  | 0.00037                    | 0.00460                    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010                   |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000104             | <0.000010                  | 0.00136                  | 0.000124                   | 0.00141                    |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | 0.00098                  | <0.00050                   | 0.00096                    |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0010              | <0.0010                    | 0.0033                   | 0.0011                     | 0.0016                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                   | 0.00051                  | <0.00030                   | 0.00055                    |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Field                      | Laboratory               | Laboratory                 | Laboratory                 |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | N/A                        | Laboratory               | Laboratory                 | Laboratory                 |                            |
| Aggregate Organics                           |            |            |           |      |                      |                            |                          |                            |                            |                            |



Analytical Results

|                                              |            |            |     |      |                             |                            |                          |                            |                            |                            |
|----------------------------------------------|------------|------------|-----|------|-----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |     |      | Client sample ID            | SW16_SW_202<br>40301<br>SW | FB_SW_202403<br>01<br>SW | SW06_SW_202<br>40301<br>SW | SW17_SW_202<br>40301<br>SW | SW15_SW_202<br>40301<br>SW |
|                                              |            |            |     |      | Client sampling date / time | 05-Mar-2024<br>11:10       | 05-Mar-2024<br>12:00     | 05-Mar-2024<br>12:00       | 05-Mar-2024<br>12:30       | 05-Mar-2024<br>13:10       |
| Analyte                                      | CAS Number | Method/Lab | LOR | Unit | TY2402177-001               | TY2402177-002              | TY2402177-003            | TY2402177-004              | TY2402177-005              |                            |
|                                              |            |            |     |      | Result                      | Result                     | Result                   | Result                     | Result                     |                            |
| Aggregate Organics                           |            |            |     |      |                             |                            |                          |                            |                            |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0 | mg/L | <2.0                        | 2.7                        | 5.1                      | <2.0                       | 5.1                        |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10  | mg/L | 24                          | <10                        | 57                       | 27                         | 57                         |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0 | mg/L | <1.0                        | <1.0                       | <1.0                     | <1.0                       | <1.0                       |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID       | SW26_SW_202<br>40301<br>SW | SW29A_SW_20<br>240301<br>SW | SW25_SW_202<br>40301<br>SW | SW22A_SW_20<br>240301<br>SW | SW27_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|--------------|--------|----------|------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |              |        |          | 05-Mar-2024<br>13:50   | 05-Mar-2024<br>14:15       | 05-Mar-2024<br>14:25        | 06-Mar-2024<br>09:35       | 06-Mar-2024<br>10:15        |                            |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2402177-006          | TY2402177-007              | TY2402177-008               | TY2402177-009              | TY2402177-010               |                            |
|                                              |            |              |        |          | Result                 | Result                     | Result                      | Result                     | Result                      |                            |
| Field Tests                                  |            |              |        |          |                        |                            |                             |                            |                             |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 11.3                   | 7.49                       | 10.1                        | 7.26                       | 9.20                        |                            |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.69                   | 7.29                       | 7.55                        | 6.74                       | 7.09                        |                            |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | -0.22                  | 0.49                       | -0.10                       | -0.18                      | -0.08                       |                            |
| Physical Tests                               |            |              |        |          |                        |                            |                             |                            |                             |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | <2.0                   | 3.0                        | <2.0                        | 3.4                        | <2.0                        |                            |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 86.5                   | 57.7                       | 91.7                        | 91.9                       | 84.6                        |                            |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 350                    | 323                        | 348                         | 306                        | 361                         |                            |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 167                    | 170                        | 170                         | 147                        | 175                         |                            |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.96                   | 7.75                       | 7.99                        | 7.70                       | 8.01                        |                            |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 228                    | 210                        | 236                         | 205                        | 248                         |                            |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 27.0                   | 11.6                       | 6.8                         | 12.4                       | 7.6                         |                            |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 20.4                   | 7.83                       | 6.41                        | 11.3                       | 7.88                        |                            |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 159                    | 184                        | 161                         | 142                        | 170                         |                            |
| Anions and Nutrients                         |            |              |        |          |                        |                            |                             |                            |                             |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.116 <sup>&lt;T</sup> | 0.326                      | 0.0599 <sup>&lt;T</sup>     | 0.140 <sup>&lt;T</sup>     | 0.0497 <sup>&lt;T</sup>     |                            |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                | <0.0010                    | <0.0010                     | <0.0010                    | <0.0010                     |                            |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 17.0                   | 1.24                       | 16.1                        | 12.6                       | 16.3                        |                            |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.039                  | 0.035                      | 0.041                       | 0.033                      | 0.041                       |                            |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.825                  | 1.02                       | 0.822                       | 0.959                      | 0.742                       |                            |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.204 <sup>&lt;T</sup> | 0.069                      | 0.053 <sup>&lt;T</sup>      | 0.111 <sup>&lt;T</sup>     | 0.117 <sup>&lt;T</sup>      |                            |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                 | <0.010                     | <0.010                      | <0.010                     | <0.010                      |                            |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0022                 | 0.0078                     | 0.0012                      | 0.0355                     | 0.0029                      |                            |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 11.2                   | 2.77                       | 10.5                        | 6.34                       | 12.2                        |                            |
| Cyanides                                     |            |              |        |          |                        |                            |                             |                            |                             |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                     |                            |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                     |                            |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                     |                            |
| Organic / Inorganic Carbon                   |            |              |        |          |                        |                            |                             |                            |                             |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 22.3                   | 21.3                       | 24.7                        | 23.7                       | 22.6                        |                            |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW26_SW_202<br>40301<br>SW | SW29A_SW_20<br>240301<br>SW | SW25_SW_202<br>40301<br>SW | SW22A_SW_20<br>240301<br>SW | SW27_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 05-Mar-2024<br>13:50 | 05-Mar-2024<br>14:15       | 05-Mar-2024<br>14:25        | 06-Mar-2024<br>09:35       | 06-Mar-2024<br>10:15        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2402177-006        | TY2402177-007              | TY2402177-008               | TY2402177-009              | TY2402177-010               |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                      | Result                     | Result                      |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                             |                            |                             |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 22.4                 | 20.6                       | 22.7                        | 22.8                       | 21.5                        |                            |
| Total Metals                                 |            |            |           |      |                      |                            |                             |                            |                             |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.609                | 0.236                      | 0.726                       | 0.287                      | 0.221                       |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00022 <T           | 0.00015                    | 0.00020 <T                  | 0.00014 <T                 | 0.00021 <T                  |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00147 <T           | 0.00087                    | 0.00269 <T                  | 0.00101 <T                 | 0.00108 <T                  |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0258               | 0.0227                     | 0.0872                      | 0.0222                     | 0.0202                      |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | 0.000028 <T          | <0.000020                  | 0.000049 <T                 | <0.000020                  | <0.000020                   |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050                   |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.015 <T             | <0.010                     | 0.013 <T                    | 0.016 <T                   | 0.013 <T                    |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000295 <T         | 0.0000214                  | 0.0000772 <T                | 0.0000142 <T               | 0.0000112 <T                |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 45.9                 | 41.6                       | 48.0                        | 34.1                       | 47.2                        |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000102             | 0.000037                   | 0.000110                    | 0.000037                   | 0.000033                    |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00147 <T           | 0.00051                    | 0.00172 <T                  | 0.00073 <T                 | 0.00058 <T                  |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00060 <T           | 0.00085                    | 0.00509 <T                  | 0.00052 <T                 | 0.00027 <T                  |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00405 <T           | 0.00106                    | 0.00510 <T                  | 0.00296 <T                 | 0.00324 <T                  |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 1.30                 | 1.16                       | 2.23                        | 0.996                      | 0.536                       |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000980 <T          | 0.000252                   | 0.00322 <T                  | 0.000431 <T                | 0.000406 <T                 |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0051 <T            | 0.0048                     | 0.0048 <T                   | 0.0052 <T                  | 0.0048 <T                   |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 14.5                 | 16.4                       | 15.2                        | 13.2                       | 15.0                        |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0910               | 0.442                      | 3.96                        | 0.205                      | 0.0728                      |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050                  |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000785 <T          | 0.000187                   | 0.000285 <T                 | 0.000826 <T                | 0.000683 <T                 |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00232 <T           | 0.00143                    | 0.00346 <T                  | 0.00167 <T                 | 0.00142 <T                  |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                     | 0.193                       | 0.093                      | <0.050                      |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 3.89                 | 1.87                       | 2.85                        | 4.27                       | 3.42                        |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00372              | 0.00269                    | 0.00362                     | 0.00409                    | 0.00231                     |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000160 <T          | 0.000152                   | 0.000181 <T                 | 0.000163 <T                | 0.000141 <T                 |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 5.65                 | 7.47                       | 6.00                        | 5.71                       | 5.00                        |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | 0.000016 <T          | <0.000010                  | 0.000014 <T                 | <0.000010                  | <0.000010                   |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                             |            |            |           |      | SW26_SW_202<br>40301<br>SW | SW29A_SW_20<br>240301<br>SW | SW25_SW_202<br>40301<br>SW | SW22A_SW_20<br>240301<br>SW | SW27_SW_202<br>40301<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 05-Mar-2024<br>13:50       | 05-Mar-2024<br>14:15        | 05-Mar-2024<br>14:25       | 06-Mar-2024<br>09:35        | 06-Mar-2024<br>10:15       |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2402177-006              | TY2402177-007               | TY2402177-008              | TY2402177-009               | TY2402177-010              |
|                             |            |            |           |      | Result                     | Result                      | Result                     | Result                      | Result                     |
| Total Metals                |            |            |           |      |                            |                             |                            |                             |                            |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 5.39                       | 2.55                        | 4.86                       | 6.02                        | 5.30                       |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0953                     | 0.0760                      | 0.0963                     | 0.0848                      | 0.0972                     |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 4.25                       | 1.45                        | 3.89                       | 2.50                        | 4.44                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                   | <0.00020                    | <0.00020                   | <0.00020                    | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                   | 0.000018 <sup>&lt;T</sup>  | <0.000010                   | <0.000010                  |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | 0.00013                    | <0.00010                    | 0.00012                    | <0.00010                    | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | 0.00016                    | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.0195                     | 0.0149                      | 0.0195                     | 0.00898                     | 0.00834                    |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.00107 <sup>&lt;T</sup>   | 0.000930                    | 0.000935 <sup>&lt;T</sup>  | 0.000792 <sup>&lt;T</sup>   | 0.00116 <sup>&lt;T</sup>   |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00221                    | 0.00119                     | 0.00332                    | 0.00133                     | 0.00111                    |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0296                     | 0.0063                      | 0.0522                     | 0.0053 <sup>&lt;T</sup>     | 0.0145                     |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00054                    | 0.00022                     | 0.00055                    | 0.00040                     | 0.00034                    |
| Dissolved Metals            |            |            |           |      |                            |                             |                            |                             |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0164                     | 0.0058                      | 0.0173                     | 0.0127                      | 0.0157                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | 0.00019                    | 0.00011                     | <0.00010                   | 0.00012                     | 0.00016                    |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00106                    | 0.00063                     | 0.00092                    | 0.00083                     | 0.00096                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0197                     | 0.0154                      | 0.0146                     | 0.0171                      | 0.0177                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                  | <0.000020                   | <0.000020                  | <0.000020                   | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050                   | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.012                      | <0.010                      | 0.010                      | 0.015                       | 0.012                      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000075                  | <0.0000050                  | 0.0000075                  | <0.0000050                  | 0.0000054                  |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 43.7                       | 40.5                        | 44.4                       | 36.3                        | 45.2                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050                    | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                   | 0.00012                     | 0.00012                    | <0.00010                    | <0.00010                   |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00213                    | 0.00073                     | 0.00090                    | 0.00254                     | 0.00237                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.190                      | 0.222                       | 0.271                      | 0.395                       | 0.192                      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000137                   | <0.000050                   | 0.000114                   | 0.000083                    | 0.000084                   |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW26_SW_202<br>40301<br>SW | SW29A_SW_20<br>240301<br>SW | SW25_SW_202<br>40301<br>SW | SW22A_SW_20<br>240301<br>SW | SW27_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 05-Mar-2024<br>13:50 | 05-Mar-2024<br>14:15       | 05-Mar-2024<br>14:25        | 06-Mar-2024<br>09:35       | 06-Mar-2024<br>10:15        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2402177-006        | TY2402177-007              | TY2402177-008               | TY2402177-009              | TY2402177-010               |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                      | Result                     | Result                      |                            |
| Dissolved Metals                             |            |            |           |      |                      |                            |                             |                            |                             |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0044               | 0.0045                     | 0.0037                      | 0.0050                     | 0.0044                      |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 14.1                 | 16.7                       | 14.4                        | 13.7                       | 15.1                        |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00130              | 0.00066                    | 0.0457                      | 0.00176                    | 0.00137                     |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050                  |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000798             | 0.000201                   | 0.000342                    | 0.000825                   | 0.000674                    |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00113              | 0.00097                    | 0.00090                     | 0.00119                    | 0.00105                     |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                      | <0.050                     | <0.050                      |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 3.93                 | 1.78                       | 2.57                        | 4.49                       | 3.42                        |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00242              | 0.00209                    | 0.00184                     | 0.00358                    | 0.00196                     |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000200             | 0.000160                   | 0.000147                    | 0.000148                   | 0.000182                    |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 4.36                 | 6.66                       | 4.80                        | 5.23                       | 4.58                        |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                   |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 5.28                 | 2.45                       | 4.64                        | 6.13                       | 5.35                        |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0980               | 0.0798                     | 0.0913                      | 0.0906                     | 0.100                       |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 4.12                 | 1.34                       | 3.88                        | 2.56                       | 4.34                        |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                    | <0.00020                   | <0.00020                    |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                   |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                    |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                    |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00143              | <0.00030                   | 0.00128                     | 0.00138                    | 0.00156                     |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                    |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.00108              | 0.000872                   | 0.000809                    | 0.000740                   | 0.00114                     |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050                    |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0122               | <0.0010                    | 0.0037                      | 0.0018                     | 0.0079                      |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                   | <0.00030                    | <0.00030                   | <0.00030                    |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                 | Laboratory                  | Laboratory                 | Laboratory                  |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                 | Laboratory                  | Laboratory                 | Laboratory                  |                            |
| Aggregate Organics                           |            |            |           |      |                      |                            |                             |                            |                             |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | 2.8                  | 2.5                        | <2.0                        | 3.0                        | <2.0                        |                            |



Analytical Results

|                                              |            |            |       |      |                  |                            |                             |                            |                             |                            |
|----------------------------------------------|------------|------------|-------|------|------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW26_SW_202<br>40301<br>SW | SW29A_SW_20<br>240301<br>SW | SW25_SW_202<br>40301<br>SW | SW22A_SW_20<br>240301<br>SW | SW27_SW_202<br>40301<br>SW |
| Client sampling date / time                  |            |            |       |      |                  | 05-Mar-2024<br>13:50       | 05-Mar-2024<br>14:15        | 05-Mar-2024<br>14:25       | 06-Mar-2024<br>09:35        | 06-Mar-2024<br>10:15       |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2402177-006    | TY2402177-007              | TY2402177-008               | TY2402177-009              | TY2402177-010               |                            |
|                                              |            |            |       |      | Result           | Result                     | Result                      | Result                     | Result                      |                            |
| Aggregate Organics                           |            |            |       |      |                  |                            |                             |                            |                             |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 54               | 46                         | 53                          | 55                         | 48                          |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | 1.3              | 1.3                        | <1.0                        | <1.0                       | <1.0                        |                            |
| Radiological Parameters                      |            |            |       |      |                  |                            |                             |                            |                             |                            |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | ----             | ----                       | ----                        | <0.005                     | ----                        |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        | Client sample ID     | SW21A_SW_20<br>240301<br>SW | SW02_SW_202<br>40301<br>SW | SW28A_SW_20<br>240301<br>SW  | TB_SW_20240<br>301<br>SW     | SW10_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|--------------|--------|----------------------|-----------------------------|----------------------------|------------------------------|------------------------------|----------------------------|
| Client sampling date / time                  |            |              |        | 06-Mar-2024<br>10:30 | 06-Mar-2024<br>11:00        | 06-Mar-2024<br>11:35       | 06-Mar-2024<br>12:00         | 06-Mar-2024<br>12:05         |                            |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit                 | TY2402177-011               | TY2402177-012              | TY2402177-013                | TY2402177-014                | TY2402177-015              |
|                                              |            |              |        |                      | Result                      | Result                     | Result                       | Result                       | Result                     |
| Field Tests                                  |            |              |        |                      |                             |                            |                              |                              |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L                 | 7.30                        | 6.58                       | 9.75                         | ----                         | 7.91                       |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units             | 7.02                        | 6.71                       | 7.41                         | ----                         | 7.27                       |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C                   | -0.04                       | 0.18                       | -0.17                        | ----                         | -0.09                      |
| Physical Tests                               |            |              |        |                      |                             |                            |                              |                              |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L                 | 4.5                         | 5.5                        | <2.0                         | <2.0                         | 4.0                        |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU                   | 94.4                        | 242                        | 107                          | <2.0                         | 98.1                       |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm                | 299                         | 166                        | 260                          | <1.0                         | 251                        |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L                 | 142                         | 92.8                       | 145                          | <0.50                        | 108                        |
| pH                                           | ----       | E108/TY      | 0.10   | pH units             | 7.67                        | 7.33                       | 7.92                         | 5.45                         | 7.68                       |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L                 | 203                         | 178                        | 198                          | <10                          | 178                        |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L                 | 6.8                         | 10.4                       | 4.6                          | <3.0                         | 19.4                       |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU                  | 8.57                        | 3.72                       | 1.44                         | <0.10                        | 16.9                       |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L                 | 144                         | 87.9                       | 141                          | <2.0                         | 107                        |
| Anions and Nutrients                         |            |              |        |                      |                             |                            |                              |                              |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L                 | 0.125 <sup>&lt;T</sup>      | 0.367 <sup>RRV</sup>       | 0.0380 <sup>&lt;T, RRV</sup> | 0.0100 <sup>&lt;T, RRV</sup> | 0.353 <sup>RRV</sup>       |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L                 | <0.0010                     | <0.0010                    | <0.0010                      | ----                         | <0.0010                    |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L                 | 11.4                        | 0.49                       | 3.19                         | <0.10                        | 13.6                       |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L                 | 0.035                       | <0.020                     | 0.043                        | <0.020                       | 0.027                      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L                 | 1.00                        | 1.16                       | 1.14                         | <0.050                       | 1.28                       |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L                 | 0.083 <sup>&lt;T</sup>      | <0.020                     | 0.026 <sup>&lt;T</sup>       | <0.020                       | 0.248 <sup>&lt;T</sup>     |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L                 | <0.010                      | <0.010                     | <0.010                       | <0.010                       | <0.010                     |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L                 | 0.0370                      | <0.0010                    | 0.0028                       | <0.0010                      | 0.0725 <sup>RRV</sup>      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L                 | 5.40                        | 0.44                       | 0.75                         | <0.30                        | 4.42                       |
| Cyanides                                     |            |              |        |                      |                             |                            |                              |                              |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L                 | <0.0020                     | <0.0020                    | <0.0020                      | <0.0020                      | <0.0020                    |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L                 | <0.0020                     | <0.0020                    | <0.0020                      | <0.0020                      | <0.0020                    |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L                 | <0.0020                     | <0.0020                    | <0.0020                      | <0.0020                      | <0.0020                    |
| Organic / Inorganic Carbon                   |            |              |        |                      |                             |                            |                              |                              |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L                 | 25.3                        | 40.6                       | 31.8                         | <0.50                        | 24.8                       |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW21A_SW_20<br>240301<br>SW | SW02_SW_202<br>40301<br>SW | SW28A_SW_20<br>240301<br>SW | TB_SW_20240<br>301<br>SW | SW10_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|-----------------------------|--------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Mar-2024<br>10:30 | 06-Mar-2024<br>11:00        | 06-Mar-2024<br>11:35       | 06-Mar-2024<br>12:00        | 06-Mar-2024<br>12:05     |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2402177-011        | TY2402177-012               | TY2402177-013              | TY2402177-014               | TY2402177-015            |                            |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                      | Result                   |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                             |                            |                             |                          |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 23.7                 | 40.2                        | 31.0                       | <0.50                       | 24.7                     |                            |
| Total Metals                                 |            |            |           |      |                      |                             |                            |                             |                          |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.200                | 0.148                       | 0.0334                     | <0.0030                     | 0.422                    |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00011 <T           | <0.00010                    | <0.00010                   | <0.00010                    | 0.00015 <T               |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00091 <T           | 0.00086 <T                  | 0.00097 <T                 | <0.00010                    | 0.00106 <T               |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0213               | 0.0154                      | 0.0140                     | <0.00010                    | 0.0198                   |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                   | <0.000020                  | <0.000020                   | 0.000023 <T              |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                   | <0.000050                  | <0.000050                   | <0.000050                |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.017 <T             | <0.010                      | 0.010                      | <0.010                      | 0.018 <T                 |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000132 <T         | 0.0000061 <T                | <0.0000050                 | <0.0000050                  | 0.0000232 <T             |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 35.5                 | 23.7                        | 33.3                       | <0.050                      | 28.0                     |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000026             | 0.000013                    | <0.000010                  | <0.000010                   | 0.000049                 |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00052 <T           | 0.00051 <T                  | <0.00050                   | <0.00050                    | 0.00091 <T               |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00050 <T           | 0.00073 <T                  | 0.00017 <T                 | <0.00010                    | 0.00064 <T               |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00192 <T           | 0.00099 <T                  | 0.00064 <T                 | <0.00050                    | 0.00265 <T               |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.953                | 1.20                        | 0.390                      | <0.010                      | 1.01                     |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000284 <T          | 0.000297 <T                 | <0.000050                  | <0.000050                   | 0.000513 <T              |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0053 <T            | 0.0025 <T                   | 0.0039 <T                  | <0.0010                     | 0.0058 <T                |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 13.3                 | 8.79                        | 13.9                       | <0.0050                     | 10.8                     |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.202                | 0.350                       | 0.0165                     | <0.00010                    | 0.120                    |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                  | <0.0000050                 | <0.0000050                  | <0.0000050               |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000700 <T          | 0.000076 <T                 | 0.000285 <T                | <0.000050                   | 0.00110 <T               |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00158 <T           | 0.00078 <T                  | 0.00102 <T                 | <0.00050                    | 0.00178 <T               |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | 0.094                | <0.050                      | <0.050                     | <0.050                      | 0.163                    |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 4.16                 | 0.978                       | 1.40                       | <0.050                      | 6.84                     |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00413              | 0.00249                     | 0.00216                    | <0.00020                    | 0.00825                  |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000129 <T          | 0.000118 <T                 | 0.000132 <T                | <0.000050                   | 0.000162 <T              |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 5.76                 | 7.99                        | 4.79                       | <0.10                       | 5.56                     |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW21A_SW_20<br>240301<br>SW | SW02_SW_202<br>40301<br>SW | SW28A_SW_20<br>240301<br>SW | TB_SW_20240<br>301<br>SW  | SW10_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|-----------------------------|---------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Mar-2024<br>10:30      | 06-Mar-2024<br>11:00        | 06-Mar-2024<br>11:35       | 06-Mar-2024<br>12:00        | 06-Mar-2024<br>12:05      |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2402177-011             | TY2402177-012               | TY2402177-013              | TY2402177-014               | TY2402177-015             |                            |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                      | Result                    |                            |
| Total Metals                                 |            |            |           |      |                           |                             |                            |                             |                           |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 5.98                      | 1.32                        | 1.71                       | <0.050                      | 6.59                      |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0845                    | 0.0364                      | 0.0628                     | <0.00020                    | 0.0705                    |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 2.28                      | 0.51                        | 0.72                       | <0.50                       | 2.09                      |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                    | <0.00020                  |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                 |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                  |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                  |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00785                   | 0.00338                     | 0.00106                    | <0.00030                    | 0.0120                    |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                  |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000760 <sup>&lt;T</sup> | 0.000074 <sup>&lt;T</sup>   | 0.000492 <sup>&lt;T</sup>  | <0.000010                   | 0.000412 <sup>&lt;T</sup> |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00118                   | 0.00066                     | 0.00053                    | <0.00050                    | 0.00174                   |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0050 <sup>&lt;T</sup>   | 0.0046 <sup>&lt;T</sup>     | 0.0034 <sup>&lt;T</sup>    | <0.0030                     | 0.0082 <sup>&lt;T</sup>   |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00034                   | <0.00020                    | <0.00020                   | <0.00020                    | 0.00050                   |                            |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                             |                           |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0112                    | 0.0638                      | 0.0116                     | <0.0010                     | 0.0230                    |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | 0.00014                   |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00076                   | 0.00077                     | 0.00095                    | <0.00010                    | 0.00086                   |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0166                    | 0.0106                      | 0.0134                     | <0.00010                    | 0.0165                    |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                   | <0.000020                  | <0.000020                   | <0.000020                 |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                  | <0.000050                   | <0.000050                 |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.016                     | <0.010                      | 0.010                      | <0.010                      | 0.016                     |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                  | <0.0000050                 | <0.0000050                  | 0.0000065                 |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 34.2                      | 22.9                        | 34.8                       | <0.050                      | 26.3                      |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                 |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                    | <0.00050                   | <0.00050                    | <0.00050                  |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00011                   | <0.00010                    | <0.00010                   | <0.00010                    | 0.00014                   |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00146                   | 0.00079                     | 0.00054                    | <0.00020                    | 0.00193                   |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.426                     | 0.666                       | 0.293                      | <0.010                      | 0.333                     |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000072                  | 0.000053                    | <0.000050                  | <0.000050                   | 0.000132                  |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW21A_SW_20<br>240301<br>SW | SW02_SW_202<br>40301<br>SW | SW28A_SW_20<br>240301<br>SW | TB_SW_20240<br>301<br>SW | SW10_SW_202<br>40301<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|-----------------------------|--------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Mar-2024<br>10:30 | 06-Mar-2024<br>11:00        | 06-Mar-2024<br>11:35       | 06-Mar-2024<br>12:00        | 06-Mar-2024<br>12:05     |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2402177-011        | TY2402177-012               | TY2402177-013              | TY2402177-014               | TY2402177-015            |                            |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                      | Result                   |                            |
| Dissolved Metals                             |            |            |           |      |                      |                             |                            |                             |                          |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0054               | 0.0024                      | 0.0038                     | <0.0010                     | 0.0053                   |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 13.8                 | 8.64                        | 14.1                       | <0.0050                     | 10.3                     |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00156              | 0.00343                     | 0.00106                    | <0.00010                    | 0.00101                  |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                  | <0.0000050                 | <0.0000050                  | <0.0000050               |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000687             | <0.000050                   | 0.000296                   | <0.000050                   | 0.00113                  |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00120              | 0.00057                     | 0.00098                    | <0.00050                    | 0.00109                  |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                      | <0.050                     | <0.050                      | 0.089                    |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 4.25                 | 0.923                       | 1.42                       | <0.050                      | 6.74                     |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00358              | 0.00235                     | 0.00201                    | <0.00020                    | 0.00684                  |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000156             | 0.000118                    | 0.000125                   | <0.000050                   | 0.000171                 |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 5.37                 | 7.72                        | 4.67                       | <0.050                      | 4.43                     |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 5.98                 | 1.27                        | 1.70                       | <0.050                      | 6.20                     |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0872               | 0.0368                      | 0.0664                     | <0.00020                    | 0.0731                   |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 2.24                 | <0.50                       | 0.65                       | <0.50                       | 1.79                     |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                    | <0.00020                   | <0.00020                    | <0.00020                 |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                 |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                 |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00113              | 0.00148                     | 0.00033                    | <0.00030                    | 0.00203                  |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                 |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000712             | 0.000057                    | 0.000485                   | <0.000010                   | 0.000397                 |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | 0.00052              | <0.00050                    | <0.00050                   | <0.00050                    | 0.00063                  |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0010              | 0.0015                      | <0.0010                    | <0.0010                     | 0.0024                   |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                    | <0.00030                   | <0.00030                    | <0.00030                 |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                  | Laboratory                 | Field                       | Laboratory               |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                  | Laboratory                 | N/A                         | Laboratory               |                            |
| Aggregate Organics                           |            |            |           |      |                      |                             |                            |                             |                          |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | 3.0                  | 3.0                         | <2.0                       | <2.0                        | 5.8                      |                            |





Analytical Results

|                                              |            |            |     |      |                             |                             |                            |                             |                          |                            |
|----------------------------------------------|------------|------------|-----|------|-----------------------------|-----------------------------|----------------------------|-----------------------------|--------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |     |      | Client sample ID            | SW21A_SW_20<br>240301<br>SW | SW02_SW_202<br>40301<br>SW | SW28A_SW_20<br>240301<br>SW | TB_SW_20240<br>301<br>SW | SW10_SW_202<br>40301<br>SW |
|                                              |            |            |     |      | Client sampling date / time | 06-Mar-2024<br>10:30        | 06-Mar-2024<br>11:00       | 06-Mar-2024<br>11:35        | 06-Mar-2024<br>12:00     | 06-Mar-2024<br>12:05       |
| Analyte                                      | CAS Number | Method/Lab | LOR | Unit | TY2402177-011               | TY2402177-012               | TY2402177-013              | TY2402177-014               | TY2402177-015            |                            |
|                                              |            |            |     |      | Result                      | Result                      | Result                     | Result                      | Result                   |                            |
| Aggregate Organics                           |            |            |     |      |                             |                             |                            |                             |                          |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10  | mg/L | 55                          | 102                         | 77                         | <10                         | 60                       |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0 | mg/L | 1.0                         | <1.0                        | <1.0                       | 1.7                         | 1.1                      |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

SRC Group # 2024-3002

Mar 27, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Mar-15-2024

Client P.O.: TY2402177

---

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

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- \* 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 # 2024-3002**

Mar 27, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

|                |                                                         |                |                     |
|----------------|---------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024009141</b>                                       | Client PO #:   | <b>TY2402177</b>    |
| Date Sampled:  | <b>Mar 06, 2024</b>                                     | Date Received: | <b>Mar 15, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                            |                |                     |
| Description:   | <b>03/06/2024 08:35 SW22A_SW_20240301 TY2402177-009</b> |                |                     |

| 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 14.2 °C upon receipt.

SRC Group # 2024-3002

Mar 27, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

2177

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

COC No: ALS-45356721

Telephone : +1 807 623 6453

of

1 of 2

|                                      |                           |  |  |  |                         |                   |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------|---------------------------|--|--|--|-------------------------|-------------------|--|--|--|--|--|--|--|--|--|--|--|
| <b>Site ID</b>                       | Rainy River               |  |  |  | <b>Turnaround Time</b>  | 10 Business Days  |  |  |  |  |  |  |  |  |  |  |  |
| <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>               | Amenda 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>    | 03/05/2024        |  |  |  |  |  |  |  |  |  |  |  |

| Items No. | Sample ID         | Sample Location   | Matrix | Depth | Sample Date Time | # of Containers | Comments Lab I.D. | Analysis | Filtered |
|-----------|-------------------|-------------------|--------|-------|------------------|-----------------|-------------------|----------|----------|
| 1         | SW16_SW_20240301  | Surface Water 16  | SW     | G     | 03/05/2024 11:10 | 11              |                   | X        |          |
| 2         | FB_SW_20240301    | Field Blank       | SW     | G     | 03/05/2024 12:00 | 11              | pH=..             | X        |          |
| 2         | SW06_SW_20240301  | 903               | SW     | G     | 03/05/2024 12:00 | 11              |                   | X        |          |
| 4         | SW17_SW_20240301  | Surface Water 17  | SW     | G     | 03/05/2024 12:30 | 11              |                   | X        |          |
| 5         | SW15_SW_20240301  | Surface Water 15  | SW     | G     | 03/05/2024 13:10 | 11              | pH=7.34.          | X        |          |
| 6         | SW26_SW_20240301  | Surface Water 26  | SW     | G     | 03/05/2024 13:50 | 11              |                   | X        |          |
| 7         | SW29A_SW_20240301 | Surface Water 29A | SW     | G     | 03/05/2024 14:15 | 11              |                   | X        |          |
| 8         | SW25_SW_20240301  | Surface Water 25  | SW     | G     | 03/05/2024 14:25 | 11              | pH=7.55.          | X        |          |

|                                                  |                                   |                                   |                  |                                  |                  |
|--------------------------------------------------|-----------------------------------|-----------------------------------|------------------|----------------------------------|------------------|
| <b>Additional Comments/Special Instructions:</b> | RELINQUISHED BY / AFFILIATION     |                                   | <b>Date Time</b> | <b>ACCEPTED BY / AFFILIATION</b> | <b>Date Time</b> |
| LV 3/8/24 9:00                                   |                                   |                                   |                  |                                  |                  |
| Sealers                                          |                                   |                                   |                  |                                  |                  |
| 9.3 7.5 7.3 8.4 9.0                              |                                   |                                   |                  |                                  |                  |
| Manitoulin                                       |                                   |                                   |                  |                                  |                  |
| <b>Email Report To :</b>                         | rainyriver.labresults@newgold.com |                                   |                  |                                  |                  |
| <b>Email Invoice To :</b>                        | rainyriver.accounts1@newgold.com  |                                   |                  |                                  |                  |
| <b>SHIPPING METHOD:</b> (mark as appropriate)    |                                   | <b>SAMPLER NAME AND SIGNATURE</b> |                  |                                  |                  |
|                                                  |                                   |                                   |                  |                                  |                  |



# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                            |              |              | ACCOUNT INFO VERIFICATION                                        |              |          |  |
|----------------------------------------------|--------------------------------------------|--------------|--------------|------------------------------------------------------------------|--------------|----------|--|
| Priority/Emergency Service Requested         | YES                                        | NO           |              | Priority/Emergency Service Requested                             | YES          | NO       |  |
| Time Sensitive Hold Time                     | YES                                        | NO           |              | Confirmed all as accurate as per COC, Sample Remarks or PM       |              |          |  |
| Client:                                      | New Gold                                   |              |              | Client                                                           | Work Contact | Quote    |  |
| SAMPLE RECEIPT INFORMATION                   |                                            |              |              | RECEIPT DETAIL                                                   |              |          |  |
| Mode of Delivery:                            | Courier                                    | Drop Off     |              | Project                                                          | PO           | Site/LSD |  |
| Courier                                      | Manitowlin                                 |              |              | Overall Description Entered                                      | Yes          | NA       |  |
| Waybill Number                               | 330 297 4271                               |              |              | Received date/time as per COC                                    | Yes          | NA       |  |
| Temperature                                  |                                            |              | Cooler Count | Recipients match CoC or Sample Remarks                           | Yes          | No       |  |
| Cooling Method                               | None                                       | Ice          | Ice Packs    | Billing Instruction added to remarks                             | Yes          | NA       |  |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                            |              |              | VERIFICATION CHECKLIST                                           |              |          |  |
| Matrix:                                      | Water                                      | Soil         | Air          | Biota                                                            | Other        |          |  |
| DW Schedule 24 Bottles Correct?              |                                            | Yes          | No           |                                                                  |              |          |  |
| DW Metals pH Check <2                        |                                            | Yes          | No           |                                                                  |              |          |  |
| Regulation Circled, Works # present          |                                            | Yes          | No - Reject? |                                                                  |              |          |  |
| # of Bottles:                                | 12                                         | Sample Count | 15           | Planned Event Submission                                         | Yes          | No       |  |
| Green/white                                  | 15 Radline, 15 BOD                         |              |              | Sample Name entered as per CoC                                   | Yes          | No       |  |
| Purple/white                                 | 15 Nuts, 15 Toc, 15 Doc                    |              |              | Sampling Date and time entered as per CoC                        | Yes          | No       |  |
| Warm red/white                               | 15 Tot. Metals, 15 Diss. Metals            |              |              | Containers selected in layout order                              | Yes          | No       |  |
| Yellow/black                                 | 15 Tot. Hg, 15 Diss. Hg                    |              |              | Sales items entered from QUOTE ONLY (and/or verified as correct) | Yes          | No       |  |
| Light blue/white                             |                                            |              |              | Field Data/EC298A removed if not on COC                          | Yes          | NA       |  |
| Orange/black                                 |                                            |              |              | Bottle Allocation Verified                                       | Yes          | NA       |  |
| Others (detail)                              | 15 Cyanide<br>15x2 OGG<br>1 Radium → Fr. 9 |              |              | Guideline added or auto-allocated                                | Yes          | No       |  |
| Comments on Samples and Bottles:             |                                            |              |              | Due dates updated                                                | Yes          | No       |  |
| Samples Requiring Preservation or Filtering: |                                            |              |              | VALIDATION                                                       |              |          |  |
| Doc, Diss. Metals, Diss. Hg → FP             |                                            |              |              | Validation errors resolved?                                      | Yes          | No       |  |
| Layout Staff Initials                        | 4V 3/8/24 10:01                            |              |              | Internal Sublet CoC created                                      | Yes          | NA       |  |
| Date and Time of Layout                      |                                            |              |              | Login Comments:                                                  |              |          |  |
|                                              |                                            |              |              | Login Staff Initials:                                            | MM           |          |  |

## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2403115                                          | Page                    | : 1 of 17                                             |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                      | Date Samples Received   | : 05-Apr-2024 11:26                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 05-Apr-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 24-Apr-2024 13:38                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 11                                                 |                         |                                                       |
| No. of samples analysed | : 11                                                 |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                               | Laboratory Department                            |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Manuel Tavaratello   | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Mingjian Yang        | Laboratory Assistant                   | Administration, Thunder Bay, Ontario             |
| Nik Perkio           | Inorganics Analyst                     | Inorganics, Waterloo, Ontario                    |
| Niki Goebel          | Inorganics Analyst                     | Metals, Waterloo, Ontario                        |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario                 |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario                     |





## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                   |
|-----------|-------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                           |
| DTC       | Dissolved concentration exceeds total. Results were confirmed by re-analysis. |
| RRV       | Reported result verified by repeat analysis.                                  |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Client sample ID                         |            |              |        |          | SW16_SW_202<br>40402<br>SW | SW17_SW_202<br>40402<br>SW | SW06_SW_202<br>40402<br>SW | SW29A_SW_20<br>240402<br>SW | SW28A_SW_20<br>240402<br>SW |
|------------------------------------------|------------|--------------|--------|----------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Client sampling date / time              |            |              |        |          | 02-Apr-2024<br>10:05       | 02-Apr-2024<br>11:00       | 02-Apr-2024<br>12:00       | 02-Apr-2024<br>12:45        | 02-Apr-2024<br>13:20        |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2403115-001              | TY2403115-002              | TY2403115-003              | TY2403115-004               | TY2403115-005               |
|                                          |            |              |        |          | Result                     | Result                     | Result                     | Result                      | Result                      |
| Field Tests                              |            |              |        |          |                            |                            |                            |                             |                             |
| Oxygen, dissolved, field                 | ----       | EF001/TY     | 0.01   | mg/L     | 11.54                      | 11.54                      | 7.47                       | 4.57                        | 11.03                       |
| pH, field                                | ----       | EF001/TY     | 0.10   | pH units | 6.80                       | 6.83                       | 6.90                       | 6.85                        | 7.52                        |
| Temperature, field                       | ----       | EF001/TY     | 0.10   | °C       | 3.78                       | 0.40                       | 0.86                       | 2.92                        | 0.30                        |
| Physical Tests                           |            |              |        |          |                            |                            |                            |                             |                             |
| Acidity (as CaCO3)                       | ----       | E283/TY      | 2.0    | mg/L     | 2.4                        | 2.5                        | 8.8                        | 7.7                         | 3.7                         |
| Colour, true                             | ----       | E329-L/TY    | 2.0    | CU       | 32.8                       | 32.2                       | 158                        | 49.4                        | 70.1                        |
| Conductivity                             | ----       | E100/TY      | 1.0    | µS/cm    | 93.3                       | 91.2                       | 192                        | 274                         | 219                         |
| Hardness (as CaCO3), dissolved           | ----       | EC100/TY     | 0.50   | mg/L     | 32.0                       | 36.6                       | 108                        | 146                         | 117                         |
| pH                                       | ----       | E108/TY      | 0.10   | pH units | 7.48                       | 7.56                       | 7.46                       | 7.67                        | 7.86                        |
| Solids, total dissolved [TDS]            | ----       | E162/TY      | 10     | mg/L     | 81                         | 67                         | 159                        | 151                         | 172                         |
| Solids, total suspended [TSS]            | ----       | E160/TY      | 3.0    | mg/L     | 4.7                        | 5.3                        | 6.9                        | 11.3                        | <3.0                        |
| Turbidity                                | ----       | E121/TY      | 0.10   | NTU      | 4.56                       | 4.18                       | 5.58                       | 8.99                        | 3.11                        |
| Alkalinity, total (as CaCO3)             | ----       | E290/TY      | 2.0    | mg/L     | 31.8                       | 37.2                       | 107                        | 155                         | 114                         |
| Anions and Nutrients                     |            |              |        |          |                            |                            |                            |                             |                             |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | <0.0050                    | <0.0050                    | 0.190 <sup>±T</sup>        | 0.128 <sup>±T</sup>         | 0.0149 <sup>±T</sup>        |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                    | <0.0010                    | <0.0010                    | <0.0010                     | <0.0010                     |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 5.78                       | 3.30                       | 0.66                       | 1.01                        | 5.60                        |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020                     | 0.028                      | <0.020                     | 0.025                       | 0.035                       |
| Kjeldahl nitrogen, total [TKN]           | ----       | E318/TY      | 0.050  | mg/L     | 0.348                      | 0.367                      | 1.20                       | 0.904                       | 0.823                       |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.063 <sup>±T</sup>        | 0.048 <sup>±T</sup>        | <0.020                     | <0.020                      | <0.020                      |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                     | <0.010                     | <0.010                     | <0.010                      | <0.010                      |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010                    | <0.0010                    | <0.0010                    | 0.0053                      | <0.0010                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 6.16                       | 5.74                       | 0.56                       | 1.94                        | 0.78                        |
| Cyanides                                 |            |              |        |          |                            |                            |                            |                             |                             |
| Cyanide, free                            | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                     |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                     |
| Cyanide, weak acid dissociable           | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                     |
| Organic / Inorganic Carbon               |            |              |        |          |                            |                            |                            |                             |                             |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40402<br>SW | SW17_SW_202<br>40402<br>SW | SW06_SW_202<br>40402<br>SW | SW29A_SW_20<br>240402<br>SW | SW28A_SW_20<br>240402<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Client sampling date / time                  |            |            |           |      | 02-Apr-2024<br>10:05 | 02-Apr-2024<br>11:00       | 02-Apr-2024<br>12:00       | 02-Apr-2024<br>12:45       | 02-Apr-2024<br>13:20        |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2403115-001        | TY2403115-002              | TY2403115-003              | TY2403115-004              | TY2403115-005               |                             |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                     | Result                      |                             |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                            |                            |                             |                             |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT  | 0.50      | mg/L | 10.5                 | 11.0                       | 29.1                       | 18.7                       | 21.7                        |                             |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 10.4                 | 10.6                       | 30.1                       | 18.4                       | 21.9                        |                             |
| Total Metals                                 |            |            |           |      |                      |                            |                            |                            |                             |                             |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.108                | 0.0921                     | 0.132                      | 0.195                      | 0.0552                      |                             |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00042 <T           | 0.00042 <T                 | 0.00078 <T                 | 0.00082 <T                 | 0.00073 <T                  |                             |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0104               | 0.0105                     | 0.0152                     | 0.0204                     | 0.0138                      |                             |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                  | <0.000020                  | <0.000020                  | <0.000020                   |                             |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                   |                             |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.010                | <0.010                     | <0.010                     | <0.010                     | <0.010                      |                             |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000059 <T         | 0.0000059 <T               | 0.0000069 <T               | 0.0000088 <T               | <0.0000050                  |                             |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 8.60                 | 9.92                       | 26.1                       | 36.2                       | 27.6                        |                             |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000022             | 0.000018                   | 0.000016                   | 0.000026                   | <0.000010                   |                             |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | <0.00050                   | 0.00050                    | <0.00050                    |                             |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | 0.00061 <T                 | 0.00093 <T                 | 0.00016 <T                  |                             |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00106 <T           | 0.00091 <T                 | <0.00050                   | 0.00062 <T                 | 0.00077 <T                  |                             |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.192                | 0.183                      | 1.01                       | 1.08                       | 0.310                       |                             |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000096 <T          | 0.000081 <T                | 0.000175 <T                | 0.000174 <T                | 0.000058 <T                 |                             |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | <0.0010              | <0.0010                    | 0.0019 <T                  | 0.0034 <T                  | 0.0031 <T                   |                             |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 2.81                 | 3.19                       | 10.6                       | 14.9                       | 11.7                        |                             |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0123               | 0.0130                     | 0.341                      | 0.674                      | 0.0177                      |                             |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                  |                             |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000148 <T          | 0.000155 <T                | 0.000097 <T                | 0.000216 <T                | 0.000545 <T                 |                             |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00074 <T           | 0.00066 <T                 | 0.00068 <T                 | 0.00115 <T                 | 0.00090 <T                  |                             |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                     | <0.050                     | <0.050                      |                             |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.937                | 0.962                      | 1.36                       | 1.56                       | 1.88                        |                             |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00225              | 0.00216                    | 0.00270                    | 0.00203                    | 0.00184                     |                             |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000093 <T          | 0.000108 <T                | 0.000125 <T                | 0.000135 <T                | 0.000100 <T                 |                             |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.17                 | 2.18                       | 7.35                       | 5.73                       | 3.59                        |                             |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40402<br>SW | SW17_SW_202<br>40402<br>SW | SW06_SW_202<br>40402<br>SW | SW29A_SW_20<br>240402<br>SW | SW28A_SW_20<br>240402<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Client sampling date / time                  |            |            |           |      | 02-Apr-2024<br>10:05 | 02-Apr-2024<br>11:00       | 02-Apr-2024<br>12:00       | 02-Apr-2024<br>12:45       | 02-Apr-2024<br>13:20        |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2403115-001        | TY2403115-002              | TY2403115-003              | TY2403115-004              | TY2403115-005               |                             |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                     | Result                      |                             |
| Total Metals                                 |            |            |           |      |                      |                            |                            |                            |                             |                             |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |                             |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 5.37                 | 4.52                       | 1.31                       | 2.08                       | 1.47                        |                             |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0251               | 0.0275                     | 0.0404                     | 0.0649                     | 0.0541                      |                             |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.80                 | 1.89                       | <0.50                      | 0.86                       | <0.50                       |                             |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                    |                             |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |                             |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00324              | 0.00310                    | 0.00348                    | 0.00578                    | 0.00210                     |                             |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000105<sup>T       | 0.000105<sup>T             | 0.000097<sup>T             | 0.000759<sup>T             | 0.000403<sup>T              |                             |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00051              | <0.00050                   | <0.00050                   | 0.00092                    | <0.00050                    |                             |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030              | <0.0030                    | <0.0030                    | <0.0030                    | <0.0030                     |                             |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                   | 0.00021                    | <0.00020                    |                             |
| Dissolved Metals                             |            |            |           |      |                      |                            |                            |                            |                             |                             |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0170               | 0.0146                     | 0.0322                     | 0.0043                     | 0.0082                      |                             |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00037              | 0.00038                    | 0.00078                    | 0.00064                    | 0.00076                     |                             |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00958              | 0.00973                    | 0.0121                     | 0.0155                     | 0.0132                      |                             |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                  | <0.000020                  | <0.000020                  | <0.000020                   |                             |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                   |                             |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010               | <0.010                     | <0.010                     | <0.010                     | <0.010                      |                             |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                  |                             |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 8.25                 | 9.43                       | 25.8                       | 34.2                       | 28.1                        |                             |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |                             |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | <0.00050                   | <0.00050                   | <0.00050                    |                             |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | 0.00011                    | 0.00018                    | <0.00010                    |                             |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00089              | 0.00078                    | 0.00028                    | 0.00039                    | 0.00064                     |                             |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.042                | 0.050                      | 0.584                      | 0.307                      | 0.184                       |                             |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40402<br>SW | SW17_SW_202<br>40402<br>SW | SW06_SW_202<br>40402<br>SW | SW29A_SW_20<br>240402<br>SW | SW28A_SW_20<br>240402<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Client sampling date / time                  |            |            |           |      | 02-Apr-2024<br>10:05 | 02-Apr-2024<br>11:00       | 02-Apr-2024<br>12:00       | 02-Apr-2024<br>12:45       | 02-Apr-2024<br>13:20        |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2403115-001        | TY2403115-002              | TY2403115-003              | TY2403115-004              | TY2403115-005               |                             |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                     | Result                      |                             |
| Dissolved Metals                             |            |            |           |      |                      |                            |                            |                            |                             |                             |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | 0.000052                   | <0.000050                  | <0.000050                   |                             |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | <0.0010              | <0.0010                    | 0.0018                     | 0.0030                     | 0.0034                      |                             |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 2.76                 | 3.16                       | 10.7                       | 14.7                       | 11.4                        |                             |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00078              | 0.00076                    | 0.0402                     | 0.147                      | 0.00095                     |                             |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                  |                             |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000156             | 0.000158                   | 0.000083                   | 0.000219                   | 0.000594                    |                             |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00053              | 0.00052                    | 0.00054                    | 0.00098                    | 0.00076                     |                             |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                     | <0.050                     | <0.050                      |                             |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.913                | 0.933                      | 1.33                       | 1.51                       | 1.85                        |                             |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00188              | 0.00189                    | 0.00251                    | 0.00142                    | 0.00184                     |                             |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000124             | 0.000141                   | 0.000157                   | 0.000107                   | 0.000142                    |                             |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 2.07                 | 2.01                       | 7.32                       | 5.34                       | 3.62                        |                             |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |                             |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 5.60                 | 4.51                       | 1.33                       | 2.14                       | 1.53                        |                             |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0259               | 0.0270                     | 0.0401                     | 0.0648                     | 0.0578                      |                             |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 1.79                 | 1.99                       | <0.50                      | 0.82                       | <0.50                       |                             |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                    |                             |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |                             |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00057              | 0.00043                    | 0.00106                    | 0.00036                    | 0.00044                     |                             |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                             |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000094             | 0.000098                   | 0.000083                   | 0.000782                   | 0.000432                    |                             |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                   | <0.00050                   | <0.00050                   | <0.00050                    |                             |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0010               | <0.0010                    | 0.0011                     | <0.0010                    | <0.0010                     |                             |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                   | <0.00030                   | <0.00030                   | <0.00030                    |                             |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Laboratory           | Laboratory                 | Laboratory                 | Laboratory                 | Laboratory                  |                             |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                 | Laboratory                 | Laboratory                 | Laboratory                  |                             |
| Aggregate Organics                           |            |            |           |      |                      |                            |                            |                            |                             |                             |



Analytical Results

|                                              |            |            |     |      |                  |                            |                            |                            |                             |                             |
|----------------------------------------------|------------|------------|-----|------|------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |     |      | Client sample ID | SW16_SW_202<br>40402<br>SW | SW17_SW_202<br>40402<br>SW | SW06_SW_202<br>40402<br>SW | SW29A_SW_20<br>240402<br>SW | SW28A_SW_20<br>240402<br>SW |
| Client sampling date / time                  |            |            |     |      |                  | 02-Apr-2024<br>10:05       | 02-Apr-2024<br>11:00       | 02-Apr-2024<br>12:00       | 02-Apr-2024<br>12:45        | 02-Apr-2024<br>13:20        |
| Analyte                                      | CAS Number | Method/Lab | LOR | Unit | TY2403115-001    | TY2403115-002              | TY2403115-003              | TY2403115-004              | TY2403115-005               |                             |
|                                              |            |            |     |      | Result           | Result                     | Result                     | Result                     | Result                      |                             |
| Aggregate Organics                           |            |            |     |      |                  |                            |                            |                            |                             |                             |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0 | mg/L | <2.0             | <2.0                       | 3.6                        | <2.0                       | <2.0                        |                             |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10  | mg/L | 33               | 35                         | 84                         | 53                         | 59                          |                             |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0 | mg/L | 1.2              | 1.3                        | 2.8                        | <1.0                       | 1.7                         |                             |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID       | SW02_SW_202<br>40402<br>SW | SW27_SW_202<br>40402<br>SW | SW21A_SW_20<br>240402<br>SW | SW22A_SW_20<br>240402<br>SW | FB_SW_202404<br>02<br>SW |
|----------------------------------------------|------------|--------------|--------|----------|------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|--------------------------|
| Client sampling date / time                  |            |              |        |          | 02-Apr-2024<br>13:55   | 02-Apr-2024<br>14:50       | 03-Apr-2024<br>09:50       | 03-Apr-2024<br>11:50        | 03-Apr-2024<br>12:00        |                          |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2403115-006          | TY2403115-007              | TY2403115-008              | TY2403115-009               | TY2403115-010               |                          |
|                                              |            |              |        |          | Result                 | Result                     | Result                     | Result                      | Result                      |                          |
| Field Tests                                  |            |              |        |          |                        |                            |                            |                             |                             |                          |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 7.47                   | 10.89                      | 6.34                       | 9.14                        | ----                        |                          |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 6.90                   | 7.61                       | 6.92                       | 7.39                        | ----                        |                          |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 0.86                   | <0.10                      | 0.18                       | 0.46                        | ----                        |                          |
| Physical Tests                               |            |              |        |          |                        |                            |                            |                             |                             |                          |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 8.7                    | 3.5                        | 7.9                        | 4.5                         | 2.3                         |                          |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 157                    | 72.4                       | 85.0                       | 79.9                        | <2.0                        |                          |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 196                    | 252                        | 264                        | 257                         | 1.4                         |                          |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 106                    | 115                        | 125                        | 121                         | <0.50                       |                          |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.45                   | 7.67                       | 7.57                       | 7.69                        | 5.85                        |                          |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 165                    | 191                        | 184                        | 187                         | <10                         |                          |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 7.3                    | 11.5                       | 6.9                        | 10.9                        | <3.0                        |                          |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 5.96                   | 19.8                       | 7.24                       | 11.6                        | <0.10                       |                          |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 106                    | 96.0                       | 120                        | 113                         | <2.0                        |                          |
| Anions and Nutrients                         |            |              |        |          |                        |                            |                            |                             |                             |                          |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.188 <sup>&lt;T</sup> | 0.0833 <sup>&lt;T</sup>    | 0.0179 <sup>&lt;T</sup>    | 0.0466 <sup>&lt;T</sup>     | <0.0050                     |                          |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                | <0.0010                    | <0.0010                    | <0.0010                     | ----                        |                          |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 0.66                   | 18.8                       | 14.7                       | 12.6                        | <0.10                       |                          |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.021                  | 0.031                      | 0.028                      | 0.028                       | <0.020                      |                          |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 1.19                   | 0.948                      | 0.927                      | 0.917                       | <0.050                      |                          |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                 | 0.100 <sup>&lt;T</sup>     | <0.020                     | <0.020                      | <0.020                      |                          |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                 | <0.010                     | <0.010                     | <0.010                      | <0.010                      |                          |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010                | 0.0308                     | 0.0683                     | 0.0364                      | <0.0010                     |                          |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 0.54                   | 13.7                       | 3.20                       | 9.25                        | <0.30                       |                          |
| Cyanides                                     |            |              |        |          |                        |                            |                            |                             |                             |                          |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                     |                          |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                | 0.0029 <sup>&lt;T</sup>    | <0.0020                    | <0.0020                     | <0.0020                     |                          |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                     |                          |
| Organic / Inorganic Carbon                   |            |              |        |          |                        |                            |                            |                             |                             |                          |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 30.5                   | 19.8                       | 18.7                       | 18.5                        | <0.50                       |                          |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW02_SW_202<br>40402<br>SW | SW27_SW_202<br>40402<br>SW | SW21A_SW_20<br>240402<br>SW | SW22A_SW_20<br>240402<br>SW | FB_SW_202404<br>02<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|--------------------------|
| Client sampling date / time                  |            |            |           |      | 02-Apr-2024<br>13:55 | 02-Apr-2024<br>14:50       | 03-Apr-2024<br>09:50       | 03-Apr-2024<br>11:50        | 03-Apr-2024<br>12:00        |                          |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2403115-006        | TY2403115-007              | TY2403115-008              | TY2403115-009               | TY2403115-010               |                          |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                      | Result                      |                          |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                            |                            |                             |                             |                          |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 30.5                 | 20.7                       | 19.4                       | 19.0                        | <0.50                       |                          |
| Total Metals                                 |            |            |           |      |                      |                            |                            |                             |                             |                          |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.153                | 0.480                      | 0.123                      | 0.265                       | <0.0030                     |                          |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | 0.00046 <T                 | <0.00010                   | 0.00022 <T                  | <0.00010                    |                          |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00079 <T           | 0.00204 <T                 | 0.00109 <T                 | 0.00132 <T                  | <0.00010                    |                          |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0153               | 0.0178                     | 0.0201                     | 0.0192                      | 0.00023                     |                          |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                  | <0.000020                  | 0.000021 <T                 | <0.000020                   |                          |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                   |                          |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010               | <0.010                     | 0.015 <T                   | 0.013 <T                    | <0.010                      |                          |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000089 <T         | 0.0000454 <T               | 0.0000079 <T               | 0.0000178 <T                | <0.0000050                  |                          |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 26.6                 | 29.9                       | 29.6                       | 29.7                        | <0.050                      |                          |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000020             | 0.000100                   | 0.000018                   | 0.000040                    | <0.000010                   |                          |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | 0.00140 <T                 | <0.00050                   | 0.00067 <T                  | <0.00050                    |                          |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00064 <T           | 0.00049 <T                 | 0.00088 <T                 | 0.00068 <T                  | <0.00010                    |                          |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050             | 0.00893 <T                 | 0.00095 <T                 | 0.00319 <T                  | <0.00050                    |                          |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 1.03                 | 0.783                      | 1.28                       | 0.984                       | <0.010                      |                          |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000203 <T          | 0.00320 <T                 | 0.000190 <T                | 0.000790 <T                 | <0.000050                   |                          |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0021 <T            | 0.0038 <T                  | 0.0038 <T                  | 0.0036 <T                   | <0.0010                     |                          |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 10.4                 | 10.4                       | 12.1                       | 11.1                        | 0.0069 <T                   |                          |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.348                | 0.104                      | 0.530                      | 0.344                       | 0.00010                     |                          |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                  |                          |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000096 <T          | 0.00180 <T                 | 0.000460 <T                | 0.000809 <T                 | <0.000050                   |                          |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00068 <T           | 0.00280 <T                 | 0.00144 <T                 | 0.00173 <T                  | <0.00050                    |                          |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | 0.055                      | 0.156                      | 0.094                       | <0.050                      |                          |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.33                 | 4.33                       | 4.17                       | 4.49                        | <0.050                      |                          |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00274              | 0.00276                    | 0.00293                    | 0.00306                     | <0.00020                    |                          |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000139 <T          | 0.000162 <T                | 0.000124 <T                | 0.000119 <T                 | <0.000050                   |                          |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 7.35                 | 4.05                       | 3.59                       | 3.84                        | 0.11                        |                          |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | 0.000025 <T                | <0.000010                  | <0.000010                   | <0.000010                   |                          |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID          | SW02_SW_202<br>40402<br>SW | SW27_SW_202<br>40402<br>SW | SW21A_SW_20<br>240402<br>SW | SW22A_SW_20<br>240402<br>SW | FB_SW_202404<br>02<br>SW |
|-----------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|--------------------------|
| Client sampling date / time |            |            |           |      |                           | 02-Apr-2024<br>13:55       | 02-Apr-2024<br>14:50       | 03-Apr-2024<br>09:50        | 03-Apr-2024<br>11:50        | 03-Apr-2024<br>12:00     |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2403115-006             | TY2403115-007              | TY2403115-008              | TY2403115-009               | TY2403115-009               | TY2403115-010            |
|                             |            |            |           |      | Result                    | Result                     | Result                     | Result                      | Result                      | Result                   |
| Total Metals                |            |            |           |      |                           |                            |                            |                             |                             |                          |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 1.31                      | 4.45                       | 6.82                       | 5.74                        | 0.173                       |                          |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0404                    | 0.0666                     | 0.0695                     | 0.0682                      | <0.00020                    |                          |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | <0.50                     | 4.42                       | 1.31                       | 3.17                        | <0.50                       |                          |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                    | <0.00020                    |                          |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                   |                          |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    |                          |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | 0.00032                     |                          |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00421                   | 0.00952                    | 0.00481                    | 0.00776                     | <0.00030                    |                          |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    |                          |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000090 <sup>&lt;T</sup> | 0.000555 <sup>&lt;T</sup>  | 0.000493 <sup>&lt;T</sup>  | 0.000530 <sup>&lt;T</sup>   | <0.000010                   |                          |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00054                   | 0.00117                    | 0.00094                    | 0.00106                     | <0.00050                    |                          |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0031 <sup>&lt;T</sup>   | 0.0206                     | <0.0030                    | 0.0064 <sup>&lt;T</sup>     | <0.0030                     |                          |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                  | 0.00032                    | 0.00025                    | 0.00028                     | <0.00020                    |                          |
| Dissolved Metals            |            |            |           |      |                           |                            |                            |                             |                             |                          |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0320                    | 0.0196                     | 0.0076                     | 0.0106                      | <0.0010                     |                          |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | 0.00042                    | <0.00010                   | 0.00020                     | <0.00010                    |                          |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00074                   | 0.00141                    | 0.00098                    | 0.00104                     | <0.00010                    |                          |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0126                    | 0.0140                     | 0.0162                     | 0.0160                      | 0.00020                     |                          |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                   | <0.000020                   |                          |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                   |                          |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | <0.010                     | 0.015                      | 0.012                       | <0.010                      |                          |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000090                  | <0.0000050                 | <0.0000050                  | <0.0000050                  |                          |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 24.9                      | 29.2                       | 30.2                       | 30.0                        | <0.050                      |                          |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | 0.000012                   | <0.000010                  | <0.000010                   | <0.000010                   |                          |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                    | <0.00050                    |                          |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00013                   | 0.00018                    | 0.00022                    | 0.00015                     | <0.00010                    |                          |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00027                   | 0.00607                    | 0.00077                    | 0.00247                     | <0.00020                    |                          |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.591                     | 0.112                      | 0.712                      | 0.380                       | <0.010                      |                          |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000059                  | 0.000357                   | 0.000076                   | 0.000184                    | <0.000050                   |                          |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                       |            |            |           |      | Client sample ID | SW02_SW_202<br>40402<br>SW | SW27_SW_202<br>40402<br>SW | SW21A_SW_20<br>240402<br>SW | SW22A_SW_20<br>240402<br>SW | FB_SW_202404<br>02<br>SW |
|---------------------------------------|------------|------------|-----------|------|------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|--------------------------|
| Client sampling date / time           |            |            |           |      |                  | 02-Apr-2024<br>13:55       | 02-Apr-2024<br>14:50       | 03-Apr-2024<br>09:50        | 03-Apr-2024<br>11:50        | 03-Apr-2024<br>12:00     |
| Analyte                               | CAS Number | Method/Lab | LOR       | Unit | TY2403115-006    | TY2403115-007              | TY2403115-008              | TY2403115-009               | TY2403115-010               |                          |
|                                       |            |            |           |      | Result           | Result                     | Result                     | Result                      | Result                      |                          |
| Dissolved Metals                      |            |            |           |      |                  |                            |                            |                             |                             |                          |
| Lithium, dissolved                    | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0017           | 0.0032                     | 0.0042                     | 0.0036                      | <0.0010                     |                          |
| Magnesium, dissolved                  | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 10.7             | 10.2                       | 12.0                       | 11.3                        | 0.0077                      |                          |
| Manganese, dissolved                  | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0810           | 0.00164                    | 0.138                      | 0.00393                     | <0.00010                    |                          |
| Mercury, dissolved                    | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050       | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                  |                          |
| Molybdenum, dissolved                 | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000079         | 0.00169                    | 0.000461                   | 0.000790                    | <0.000050                   |                          |
| Nickel, dissolved                     | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00054          | 0.00130                    | 0.00121                    | 0.00116                     | <0.00050                    |                          |
| Phosphorus, dissolved                 | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050           | <0.050                     | 0.087                      | <0.050                      | <0.050                      |                          |
| Potassium, dissolved                  | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.30             | 4.28                       | 4.13                       | 4.36                        | <0.050                      |                          |
| Rubidium, dissolved                   | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00250          | 0.00212                    | 0.00256                    | 0.00245                     | <0.00020                    |                          |
| Selenium, dissolved                   | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000120         | 0.000156                   | 0.000144                   | 0.000172                    | <0.000050                   |                          |
| Silicon, dissolved                    | 7440-21-3  | E421/TY    | 0.050     | mg/L | 7.21             | 3.44                       | 3.42                       | 3.38                        | 0.083                       |                          |
| Silver, dissolved                     | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010        | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                   |                          |
| Sodium, dissolved                     | 7440-23-5  | E421/TY    | 0.050     | mg/L | 1.34             | 4.50                       | 7.03                       | 5.92                        | 0.175                       |                          |
| Strontium, dissolved                  | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0419           | 0.0677                     | 0.0707                     | 0.0664                      | <0.00020                    |                          |
| Sulfur, dissolved                     | 7704-34-9  | E421/TY    | 0.50      | mg/L | <0.50            | 4.33                       | 1.24                       | 3.19                        | <0.50                       |                          |
| Tellurium, dissolved                  | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020         | <0.00020                   | <0.00020                   | <0.00020                    | <0.00020                    |                          |
| Thallium, dissolved                   | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010        | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                   |                          |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    |                          |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                   | <0.00010                   | <0.00010                    | 0.00030                     |                          |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00113          | 0.00121                    | 0.00095                    | 0.00104                     | <0.00030                    |                          |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    |                          |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000089         | 0.000562                   | 0.000481                   | 0.000531                    | <0.000010                   |                          |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050         | <0.00050                   | <0.00050                   | <0.00050                    | <0.00050                    |                          |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0012           | 0.0043                     | <0.0010                    | 0.0012                      | <0.0010                     |                          |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030         | <0.00030                   | 0.00030                    | <0.00030                    | <0.00030                    |                          |
| Dissolved mercury filtration location | ----       | EP509/WT   | -         | -    | Laboratory       | Laboratory                 | Laboratory                 | Laboratory                  | Field                       |                          |
| Dissolved metals filtration location  | ----       | EP421/TY   | -         | -    | Laboratory       | Laboratory                 | Laboratory                 | Laboratory                  | Field                       |                          |
| Aggregate Organics                    |            |            |           |      |                  |                            |                            |                             |                             |                          |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0       | mg/L | 3.1              | 4.1                        | 2.8                        | 4.1                         | <2.0                        |                          |



Analytical Results

|                                              |            |            |       |      |                  |                            |                            |                             |                             |                          |
|----------------------------------------------|------------|------------|-------|------|------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|--------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW02_SW_202<br>40402<br>SW | SW27_SW_202<br>40402<br>SW | SW21A_SW_20<br>240402<br>SW | SW22A_SW_20<br>240402<br>SW | FB_SW_202404<br>02<br>SW |
| Client sampling date / time                  |            |            |       |      |                  | 02-Apr-2024<br>13:55       | 02-Apr-2024<br>14:50       | 03-Apr-2024<br>09:50        | 03-Apr-2024<br>11:50        | 03-Apr-2024<br>12:00     |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2403115-006    | TY2403115-007              | TY2403115-008              | TY2403115-009               | TY2403115-010               |                          |
|                                              |            |            |       |      | Result           | Result                     | Result                     | Result                      | Result                      |                          |
| Aggregate Organics                           |            |            |       |      |                  |                            |                            |                             |                             |                          |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 81               | 71                         | 56                         | 59                          | <10                         |                          |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | 2.3              | 2.4                        | 2.0                        | 9.0                         | 1.7                         |                          |
| Radiological Parameters                      |            |            |       |      |                  |                            |                            |                             |                             |                          |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | ----             | ----                       | ----                       | <0.005                      | ----                        |                          |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                              |            |              |         |          |                             |                          |       |       |       |      |
|----------------------------------------------|------------|--------------|---------|----------|-----------------------------|--------------------------|-------|-------|-------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |         |          | Client sample ID            | TB_SW_20240<br>402<br>SW | ----  | ----  | ----  | ---- |
|                                              |            |              |         |          | Client sampling date / time | 03-Apr-2024<br>12:00     | ----  | ----  | ----  | ---- |
| Analyte                                      | CAS Number | Method/Lab   | LOR     | Unit     | TY2403115-011               | -----                    | ----- | ----- | ----- |      |
|                                              |            |              |         |          | Result                      | ----                     | ----  | ----  | ----  |      |
| Physical Tests                               |            |              |         |          |                             |                          |       |       |       |      |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0     | mg/L     | 2.5                         | ----                     | ----  | ----  | ----  |      |
| Colour, true                                 | ----       | E329-L/TY    | 2.0     | CU       | <2.0                        | ----                     | ----  | ----  | ----  |      |
| Conductivity                                 | ----       | E100/TY      | 1.0     | µS/cm    | 1.1                         | ----                     | ----  | ----  | ----  |      |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50    | mg/L     | <0.50                       | ----                     | ----  | ----  | ----  |      |
| pH                                           | ----       | E108/TY      | 0.10    | pH units | 5.26                        | ----                     | ----  | ----  | ----  |      |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10      | mg/L     | <10                         | ----                     | ----  | ----  | ----  |      |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0     | mg/L     | <3.0                        | ----                     | ----  | ----  | ----  |      |
| Turbidity                                    | ----       | E121/TY      | 0.10    | NTU      | <0.10                       | ----                     | ----  | ----  | ----  |      |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0     | mg/L     | <2.0                        | ----                     | ----  | ----  | ----  |      |
| Anions and Nutrients                         |            |              |         |          |                             |                          |       |       |       |      |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050  | mg/L     | <0.0050                     | ----                     | ----  | ----  | ----  |      |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10    | mg/L     | <0.10                       | ----                     | ----  | ----  | ----  |      |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020   | mg/L     | <0.020                      | ----                     | ----  | ----  | ----  |      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050   | mg/L     | <0.050                      | ----                     | ----  | ----  | ----  |      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020   | mg/L     | <0.020                      | ----                     | ----  | ----  | ----  |      |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010   | mg/L     | <0.010                      | ----                     | ----  | ----  | ----  |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010  | mg/L     | <0.0010                     | ----                     | ----  | ----  | ----  |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30    | mg/L     | <0.30                       | ----                     | ----  | ----  | ----  |      |
| Cyanides                                     |            |              |         |          |                             |                          |       |       |       |      |
| Cyanide, free                                | ----       | E339/WT      | 0.0020  | mg/L     | <0.0020                     | ----                     | ----  | ----  | ----  |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020  | mg/L     | <0.0020                     | ----                     | ----  | ----  | ----  |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020  | mg/L     | <0.0020                     | ----                     | ----  | ----  | ----  |      |
| Organic / Inorganic Carbon                   |            |              |         |          |                             |                          |       |       |       |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50    | mg/L     | 1.08 <sup>RRV</sup>         | ----                     | ----  | ----  | ----  |      |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT    | 0.50    | mg/L     | <0.50 <sup>DTC</sup>        | ----                     | ----  | ----  | ----  |      |
| Total Metals                                 |            |              |         |          |                             |                          |       |       |       |      |
| Aluminum, total                              | 7429-90-5  | E420/TY      | 0.0030  | mg/L     | 0.0088 <sup>&lt;T</sup>     | ----                     | ----  | ----  | ----  |      |
| Antimony, total                              | 7440-36-0  | E420/TY      | 0.00010 | mg/L     | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Arsenic, total                               | 7440-38-2  | E420/TY      | 0.00010 | mg/L     | <0.00010                    | ----                     | ----  | ----  | ----  |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | TB_SW_20240<br>402<br>SW | ----  | ----  | ----  | ---- |
|----------------------------------------------|------------|------------|-----------|------|----------------------|--------------------------|-------|-------|-------|------|
| Client sampling date / time                  |            |            |           |      | 03-Apr-2024<br>12:00 | ----                     | ----  | ----  | ----  |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2403115-011        | -----                    | ----- | ----- | ----- |      |
|                                              |            |            |           |      | Result               | ----                     | ----  | ----  | ----  |      |
| Total Metals                                 |            |            |           |      |                      |                          |       |       |       |      |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.00059              | ----                     | ----  | ----  | ----  |      |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | ----                     | ----  | ----  | ----  |      |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | ----                     | ----  | ----  | ----  |      |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010               | ----                     | ----  | ----  | ----  |      |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050           | ----                     | ----  | ----  | ----  |      |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 0.089                | ----                     | ----  | ----  | ----  |      |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010            | ----                     | ----  | ----  | ----  |      |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | ----                     | ----  | ----  | ----  |      |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010             | ----                     | ----  | ----  | ----  |      |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050             | ----                     | ----  | ----  | ----  |      |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | <0.010               | ----                     | ----  | ----  | ----  |      |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050            | ----                     | ----  | ----  | ----  |      |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | <0.0010              | ----                     | ----  | ----  | ----  |      |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 0.0122 <T            | ----                     | ----  | ----  | ----  |      |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | <0.00010             | ----                     | ----  | ----  | ----  |      |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | ----                     | ----  | ----  | ----  |      |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | <0.000050            | ----                     | ----  | ----  | ----  |      |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | <0.00050             | ----                     | ----  | ----  | ----  |      |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | ----                     | ----  | ----  | ----  |      |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | <0.050               | ----                     | ----  | ----  | ----  |      |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | <0.00020             | ----                     | ----  | ----  | ----  |      |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | <0.000050            | ----                     | ----  | ----  | ----  |      |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | <0.10                | ----                     | ----  | ----  | ----  |      |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | ----                     | ----  | ----  | ----  |      |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 0.173                | ----                     | ----  | ----  | ----  |      |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.00027 <T           | ----                     | ----  | ----  | ----  |      |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | <0.50                | ----                     | ----  | ----  | ----  |      |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020             | ----                     | ----  | ----  | ----  |      |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010            | ----                     | ----  | ----  | ----  |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID            | TB_SW_20240<br>402<br>SW | ----  | ----  | ----  | ---- |
|----------------------------------------------|------------|------------|-----------|------|-----------------------------|--------------------------|-------|-------|-------|------|
|                                              |            |            |           |      | Client sampling date / time | 03-Apr-2024<br>12:00     | ----  | ----  | ----  | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2403115-011               | -----                    | ----- | ----- | ----- |      |
|                                              |            |            |           |      | Result                      | ----                     | ----  | ----  | ----  |      |
| Total Metals                                 |            |            |           |      |                             |                          |       |       |       |      |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | <0.00030                    | ----                     | ----  | ----  | ----  |      |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | <0.000010                   | ----                     | ----  | ----  | ----  |      |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                    | ----                     | ----  | ----  | ----  |      |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                     | ----                     | ----  | ----  | ----  |      |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                    | ----                     | ----  | ----  | ----  |      |
| Dissolved Metals                             |            |            |           |      |                             |                          |       |       |       |      |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0091                      | ----                     | ----  | ----  | ----  |      |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00063                     | ----                     | ----  | ----  | ----  |      |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                   | ----                     | ----  | ----  | ----  |      |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                   | ----                     | ----  | ----  | ----  |      |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                      | ----                     | ----  | ----  | ----  |      |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                  | ----                     | ----  | ----  | ----  |      |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 0.114                       | ----                     | ----  | ----  | ----  |      |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                   | ----                     | ----  | ----  | ----  |      |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                    | ----                     | ----  | ----  | ----  |      |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | <0.00020                    | ----                     | ----  | ----  | ----  |      |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | <0.010                      | ----                     | ----  | ----  | ----  |      |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050                   | ----                     | ----  | ----  | ----  |      |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | <0.0010                     | ----                     | ----  | ----  | ----  |      |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 0.0122                      | ----                     | ----  | ----  | ----  |      |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050                  | ----                     | ----  | ----  | ----  |      |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | <0.000050                   | ----                     | ----  | ----  | ----  |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID            | TB_SW_20240<br>402<br>SW | ----  | ----  | ----  | ---- |
|----------------------------------------------|------------|------------|----------|------|-----------------------------|--------------------------|-------|-------|-------|------|
|                                              |            |            |          |      | Client sampling date / time | 03-Apr-2024<br>12:00     | ----  | ----  | ----  | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2403115-011               | -----                    | ----- | ----- | ----- |      |
|                                              |            |            |          |      | Result                      | ----                     | ----  | ----  | ----  |      |
| Dissolved Metals                             |            |            |          |      |                             |                          |       |       |       |      |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050  | mg/L | <0.00050                    | ----                     | ----  | ----  | ----  |      |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050    | mg/L | <0.050                      | ----                     | ----  | ----  | ----  |      |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050    | mg/L | <0.050                      | ----                     | ----  | ----  | ----  |      |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020  | mg/L | <0.00020                    | ----                     | ----  | ----  | ----  |      |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050 | mg/L | <0.000050                   | ----                     | ----  | ----  | ----  |      |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050    | mg/L | <0.050                      | ----                     | ----  | ----  | ----  |      |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010 | mg/L | <0.000010                   | ----                     | ----  | ----  | ----  |      |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050    | mg/L | 0.180                       | ----                     | ----  | ----  | ----  |      |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020  | mg/L | 0.00029                     | ----                     | ----  | ----  | ----  |      |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50     | mg/L | <0.50                       | ----                     | ----  | ----  | ----  |      |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020  | mg/L | <0.00020                    | ----                     | ----  | ----  | ----  |      |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010 | mg/L | <0.000010                   | ----                     | ----  | ----  | ----  |      |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010  | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010  | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030  | mg/L | <0.00030                    | ----                     | ----  | ----  | ----  |      |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010  | mg/L | <0.00010                    | ----                     | ----  | ----  | ----  |      |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010 | mg/L | <0.000010                   | ----                     | ----  | ----  | ----  |      |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050  | mg/L | <0.00050                    | ----                     | ----  | ----  | ----  |      |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010   | mg/L | <0.0010                     | ----                     | ----  | ----  | ----  |      |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030  | mg/L | <0.00030                    | ----                     | ----  | ----  | ----  |      |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -        | -    | Field                       | ----                     | ----  | ----  | ----  |      |
| Dissolved metals filtration location         | ----       | EP421/TY   | -        | -    | Field                       | ----                     | ----  | ----  | ----  |      |
| Aggregate Organics                           |            |            |          |      |                             |                          |       |       |       |      |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0      | mg/L | 3.1                         | ----                     | ----  | ----  | ----  |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10       | mg/L | <10                         | ----                     | ----  | ----  | ----  |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0      | mg/L | 1.5                         | ----                     | ----  | ----  | ----  |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.

Page : 17 of 17  
Work Order : TY2403115  
Client : New Gold Inc. (Rainy River)  
Project : Surface Water

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## ***Test Report***

SRC Group # 2024-4188

Apr 24, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Apr-12-2024

Client P.O.: TY2403115

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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 Snook, Vicky

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

**SRC Group # 2024-4188**

Apr 24, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

|                |                                                         |                |                     |
|----------------|---------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024011963</b>                                       | Client PO #:   | <b>TY2403115</b>    |
| Date Sampled:  | <b>Apr 03, 2024</b>                                     | Date Received: | <b>Apr 12, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                            |                |                     |
| Description:   | <b>04/03/2024 10:50 SW22A_SW_20240402 TY2403115-009</b> |                |                     |

| 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 11.5 °C upon receipt.

SRC Group # 2024-4188

Apr 24, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

T4240319

[illegible]

| Additional Comments/Special Instructions:           | RELINQUISHED BY / AFFILIATION          | Date Time | ACCEPTED BY / AFFILIATION  | Date Time |
|-----------------------------------------------------|----------------------------------------|-----------|----------------------------|-----------|
|                                                     |                                        |           |                            |           |
|                                                     |                                        |           |                            |           |
|                                                     | SHIPPING METHOD: (mark as appropriate) |           | SAMPLER NAME AND SIGNATURE | Date Time |
| Email Report To : rainyriver.labresults@newgold.com |                                        |           |                            |           |
| Email Invoice To : rainyriver.accounts1@newgold.com |                                        |           |                            |           |

|                   |               | Field Dissolved Oxygen | Field pH | Field Temp |
|-------------------|---------------|------------------------|----------|------------|
| Sample Code       | Date and Time |                        |          |            |
| SW02_SW_20240402  | 4-2-24 13:55  | 7.47                   | 6.9      | 0.86       |
| SW06_SW_20240402  | 4-2-24 12:00  | 7.47                   | 6.9      | 0.86       |
| SW16_SW_20240402  | 4-2-24 10:05  | 11.54                  | 6.8      | 3.78       |
| SW17_SW_20240402  | 4-2-24 11:00  | 11.54                  | 6.83     | 0.4        |
| SW27_SW_20240402  | 4-2-24 14:50  | 10.89                  | 7.61     | 0.08       |
| SW28A_SW_20240402 | 4-2-24 13:20  | 11.03                  | 7.52     | 0.3        |
| SW29A_SW_20240402 | 4-2-24 12:45  | 4.57                   | 6.85     | 2.92       |
| SW21A_SW_20240402 | 4-3-24 9:50   | 6.34                   | 6.92     | 0.18       |
| SW22A_SW_20240402 | 4-3-24 11:50  | 9.14                   | 7.39     | 0.46       |

# Intake and Login Verification Form

| SAMPLE INTAKE                                                                    |                                                                                             |                                                               |                                            |             |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|-------------|
| Priority/Emergency Service Requested                                             | YES                                                                                         | <input checked="" type="radio"/> NO                           |                                            |             |
| Time Sensitive Hold Time                                                         | YES                                                                                         | <input checked="" type="radio"/> NO                           |                                            |             |
| Client:                                                                          | New Gold                                                                                    |                                                               |                                            |             |
| SAMPLE RECEIPT INFORMATION                                                       |                                                                                             |                                                               |                                            |             |
| Mode of Delivery:                                                                | Courier                                                                                     | Drop Off                                                      |                                            |             |
| Courier                                                                          | Manitoulin                                                                                  |                                                               |                                            |             |
| Waybill Number                                                                   | 330 302 7848                                                                                |                                                               |                                            |             |
| Temperature                                                                      | 4.8, 52, 3.8, 6.8, 6.1                                                                      | Cooler Count 5                                                |                                            |             |
| Cooling Method                                                                   | None                                                                                        | Ice                                                           | <input checked="" type="radio"/> Ice Packs |             |
| SAMPLE MATRIX/BOTTLE INFORMATION                                                 |                                                                                             |                                                               |                                            |             |
| Matrix:                                                                          | <input checked="" type="radio"/> Water                                                      | Soil                                                          | Air                                        | Biota Other |
| DW Schedule 24 Bottles Correct?                                                  |                                                                                             | <input checked="" type="radio"/> Yes <input type="radio"/> No |                                            |             |
| DW Metals pH Check <2                                                            |                                                                                             | <input checked="" type="radio"/> Yes <input type="radio"/> No |                                            |             |
| Regulation Circled, Works # present                                              | <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Reject? |                                                               |                                            |             |
| # of Bottles:                                                                    | Sample Count                                                                                |                                                               | 11                                         |             |
| Green/white                                                                      | 11 Routine, 11 BOD                                                                          |                                                               |                                            |             |
| Purple/white                                                                     | 11 Nuts, 11 TOC, 11 DOC                                                                     |                                                               |                                            |             |
| Warm red/white                                                                   | 11 Tot. Metals, 11 Diss. Metals                                                             |                                                               |                                            |             |
| Yellow/black                                                                     | 11 Tot. Hg, 11 Diss. Hg                                                                     |                                                               |                                            |             |
| Light blue/white                                                                 |                                                                                             |                                                               |                                            |             |
| Orange/black                                                                     |                                                                                             |                                                               |                                            |             |
| Others (detail)                                                                  | 11 Cyanide<br>11x2 OGG<br>1 Radium → Fr. 9                                                  |                                                               |                                            |             |
| Comments on Samples and Bottles:                                                 |                                                                                             |                                                               |                                            |             |
| Samples Requiring Preservation or Filtering:<br>Doc, Diss. Metals, Diss. Hg → FP |                                                                                             |                                                               |                                            |             |
| Layout Staff Initials                                                            | LV 4/5/24 1:35                                                                              |                                                               |                                            |             |
| Date and Time of Layout                                                          |                                                                                             |                                                               |                                            |             |

| ACCOUNT INFO VERIFICATION                                                    |                                      |                                     |
|------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| Priority/Emergency Service Requested                                         | YES                                  | <input checked="" type="radio"/> NO |
| Confirmed all as accurate as per COC, Sample Remarks or PM                   |                                      |                                     |
| Client                                                                       | Work Contact                         | Quote                               |
| <input checked="" type="checkbox"/>                                          |                                      |                                     |
| RECEIPT DETAIL                                                               |                                      |                                     |
| Project                                                                      | PO                                   | Site/LSD                            |
| Overall Description Entered                                                  | Yes                                  | <input checked="" type="radio"/> NA |
| Received date/time as per COC                                                |                                      |                                     |
| Recipients match CoC or Sample Remarks                                       | <input checked="" type="radio"/> Yes | No                                  |
| Billing Instruction added to remarks                                         | <input checked="" type="radio"/> Yes | NA                                  |
| Sample Remarks/Specification Doc checked <input checked="" type="checkbox"/> |                                      |                                     |
| Submission Issues communicated                                               | Yes                                  | <input checked="" type="radio"/> NA |
| Sample Info communicated via Remarks                                         | Yes                                  | <input checked="" type="radio"/> NA |
| VERIFICATION CHECKLIST                                                       |                                      |                                     |
| Planned Event Submission                                                     | <input checked="" type="radio"/> Yes | No                                  |
| Sample Name entered as per CoC                                               | <input checked="" type="checkbox"/>  |                                     |
| Sampling Date and time entered as per CoC                                    | <input checked="" type="checkbox"/>  |                                     |
| Containers selected in layout order                                          | <input checked="" type="checkbox"/>  |                                     |
| Sales items entered from QUOTE ONLY (and/or verified as correct)             | <input checked="" type="checkbox"/>  |                                     |
| Field Data/EC298A removed if not on COC                                      | Yes                                  | <input checked="" type="radio"/> NA |
| Bottle Allocation Verified                                                   | <input checked="" type="checkbox"/>  |                                     |
| Guideline added or auto-allocated                                            | <input checked="" type="checkbox"/>  |                                     |
| Due dates updated                                                            | <input checked="" type="checkbox"/>  |                                     |
| VALIDATION                                                                   |                                      |                                     |
| Validation errors resolved?                                                  | <input checked="" type="radio"/> Yes | No                                  |
| Internal Sublet CoC created                                                  | <input checked="" type="radio"/> Yes | NA                                  |
| Login Comments:                                                              |                                      |                                     |
|                                                                              |                                      |                                     |
| Login Staff Initials:                                                        | ANZ6                                 |                                     |

## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2404494                                          | Page                    | : 1 of 22                                             |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                      | Date Samples Received   | : 10-May-2024 09:08                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 10-May-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 05-Jun-2024 11:34                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 19                                                 |                         |                                                       |
| No. of samples analysed | : 19                                                 |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                                    | Laboratory Department                            |
|----------------------|---------------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics                    | Administration, Thunder Bay, Ontario             |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Inorganics, Thunder Bay, Ontario                 |
| Jocelyn Kennedy      | Department Manager - Semi-Volatile Organics | Organics, Waterloo, Ontario                      |
| Jon Fisher           | Production Manager, Environmental           | Inorganics, Waterloo, Ontario                    |
| Jon Fisher           | Production Manager, Environmental           | Metals, Waterloo, Ontario                        |
| Julie Ruoho          | Account Manager                             | External Subcontracting, Saskatoon, Saskatchewan |
| Julie Ruoho          | Teamleader Wet Chem                         | Inorganics, Thunder Bay, Ontario                 |
| Nik Perkio           | Senior Analyst                              | Inorganics, Waterloo, Ontario                    |
| Niki Goebel          | Inorganics Analyst                          | Metals, Waterloo, Ontario                        |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions      | Organics, Waterloo, Ontario                      |
| Rhiannon Scheffee    | Project Manager                             | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry                | Inorganics, Thunder Bay, Ontario                 |
| Shannon Veltri       | Supervisor - Water Chemistry                | Metals, Thunder Bay, Ontario                     |





## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| 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.                          |



Analytical Results

|                                              |            |              |        |          |                            |                            |                            |                          |                            |
|----------------------------------------------|------------|--------------|--------|----------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID           |                            |                            |                          |                            |
|                                              |            |              |        |          | SW16_SW_202<br>40501<br>SW | SW17_SW_202<br>40501<br>SW | SW15_SW_202<br>40501<br>SW | FB_SW_202405<br>01<br>SW | SW24_SW_202<br>40501<br>SW |
| Client sampling date / time                  |            |              |        |          | 07-May-2024<br>09:40       | 07-May-2024<br>09:40       | 07-May-2024<br>11:15       | 07-May-2024<br>12:00     | 07-May-2024<br>12:05       |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2404494-001              | TY2404494-002              | TY2404494-003              | TY2404494-004            | TY2404494-005              |
|                                              |            |              |        |          | Result                     | Result                     | Result                     | Result                   | Result                     |
| Field Tests                                  |            |              |        |          |                            |                            |                            |                          |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 10.67                      | 10.12                      | 7.54                       | ----                     | 8.71                       |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.24                       | 7.63                       | 7.68                       | ----                     | 7.51                       |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 10.8                       | 10.8                       | 10.4                       | ----                     | 10.5                       |
| Physical Tests                               |            |              |        |          |                            |                            |                            |                          |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 3.4                        | 2.9                        | 3.2                        | 2.3                      | 3.0                        |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 129                        | 163                        | 164                        | <2.0                     | 125                        |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 116                        | 147                        | 272                        | 2.3                      | 409                        |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 52.7                       | 67.0                       | 120                        | <0.50                    | 154                        |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.63                       | 7.75                       | 7.91                       | 6.15                     | 7.92                       |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 98                         | 133                        | 182                        | <10                      | 238                        |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 24.6                       | 102                        | 53.4                       | <3.0                     | 10.2                       |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 20.0                       | 69.9                       | 39.7                       | <0.10                    | 6.82                       |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 43.6                       | 57.6                       | 83.3                       | <2.0                     | 86.3                       |
| Anions and Nutrients                         |            |              |        |          |                            |                            |                            |                          |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0113 <sup>&lt;T</sup>    | 0.0221 <sup>&lt;T</sup>    | 0.0249 <sup>&lt;T</sup>    | <0.0050                  | 0.0423 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                    | <0.0010                    | <0.0010                    | ----                     | <0.0010                    |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 4.44                       | 4.22                       | 6.73                       | <0.10                    | 11.2                       |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.030                      | <0.020                     | 0.045                      | <0.020                   | 0.058                      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.919                      | 0.850                      | 1.12                       | <0.050                   | 1.02                       |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.063 <sup>&lt;T</sup>     | 0.140 <sup>&lt;T</sup>     | 0.292                      | <0.020                   | 0.412                      |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                     | <0.010                     | <0.010                     | <0.010                   | <0.010                     |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010                    | 0.0014                     | <0.0010                    | <0.0010                  | <0.0010                    |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 6.09                       | 8.66                       | 41.1                       | <0.30                    | 93.6                       |
| Cyanides                                     |            |              |        |          |                            |                            |                            |                          |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Organic / Inorganic Carbon                   |            |              |        |          |                            |                            |                            |                          |                            |



Analytical Results

Sub-Matrix: Surface Water

Client sample ID

(Matrix: Water)

|                                 |            |            |           |      | SW16_SW_202<br>40501<br>SW | SW17_SW_202<br>40501<br>SW | SW15_SW_202<br>40501<br>SW | FB_SW_202405<br>01<br>SW | SW24_SW_202<br>40501<br>SW |
|---------------------------------|------------|------------|-----------|------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time     |            |            |           |      | 07-May-2024<br>09:40       | 07-May-2024<br>09:40       | 07-May-2024<br>11:15       | 07-May-2024<br>12:00     | 07-May-2024<br>12:05       |
| Analyte                         | CAS Number | Method/Lab | LOR       | Unit | TY2404494-001              | TY2404494-002              | TY2404494-003              | TY2404494-004            | TY2404494-005              |
|                                 |            |            |           |      | Result                     | Result                     | Result                     | Result                   | Result                     |
| Organic / Inorganic Carbon      |            |            |           |      |                            |                            |                            |                          |                            |
| Carbon, dissolved organic [DOC] | ----       | E358-L/WT  | 0.50      | mg/L | 28.2                       | 34.1                       | 33.2                       | <0.50                    | 28.4                       |
| Carbon, total organic [TOC]     | ----       | E355-L/WT  | 0.50      | mg/L | 24.2                       | 30.4                       | 31.9                       | <0.50                    | 26.7                       |
| Total Metals                    |            |            |           |      |                            |                            |                            |                          |                            |
| Aluminum, total                 | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.585                      | 2.28                       | 1.01                       | 0.0084 <sup>&lt;T</sup>  | 0.248                      |
| Antimony, total                 | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00020 <sup>DLM</sup>    | 0.00084 <sup>&lt;T</sup>   | <0.00010                 | 0.00220 <sup>&lt;T</sup>   |
| Arsenic, total                  | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00076 <sup>&lt;T</sup>   | 0.00141 <sup>&lt;T</sup>   | 0.00111 <sup>&lt;T</sup>   | <0.00010                 | 0.00085 <sup>&lt;T</sup>   |
| Barium, total                   | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0183                     | 0.0389                     | 0.0270                     | 0.00065                  | 0.0216                     |
| Beryllium, total                | 7440-41-7  | E420/TY    | 0.000020  | mg/L | 0.000030 <sup>&lt;T</sup>  | 0.000099 <sup>&lt;T</sup>  | 0.000044 <sup>&lt;T</sup>  | <0.000020                | <0.000020                  |
| Bismuth, total                  | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                  | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000050                | <0.000050                  |
| Boron, total                    | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.013 <sup>&lt;T</sup>     | <0.020 <sup>DLM</sup>      | 0.020                      | <0.010                   | 0.028 <sup>&lt;T</sup>     |
| Cadmium, total                  | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000225 <sup>&lt;T</sup> | 0.0000656 <sup>&lt;T</sup> | 0.0000164 <sup>&lt;T</sup> | <0.0000050               | 0.0000103 <sup>&lt;T</sup> |
| Calcium, total                  | 7440-70-2  | E420/TY    | 0.050     | mg/L | 12.7                       | 18.8                       | 29.9                       | 0.104                    | 39.2                       |
| Cesium, total                   | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000086                   | 0.000379                   | 0.000156                   | <0.000010                | 0.000063                   |
| Chromium, total                 | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00142 <sup>&lt;T</sup>   | 0.00515 <sup>&lt;T</sup>   | 0.00223 <sup>&lt;T</sup>   | <0.00050                 | 0.00062 <sup>&lt;T</sup>   |
| Cobalt, total                   | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00041 <sup>&lt;T</sup>   | 0.00166 <sup>&lt;T</sup>   | 0.00092 <sup>&lt;T</sup>   | <0.00010                 | 0.00055 <sup>&lt;T</sup>   |
| Copper, total                   | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00208 <sup>&lt;T</sup>   | 0.00439 <sup>&lt;T</sup>   | 0.00267 <sup>&lt;T</sup>   | <0.00050                 | 0.00160 <sup>&lt;T</sup>   |
| Iron, total                     | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.856                      | 3.19                       | 1.42                       | <0.010                   | 0.431                      |
| Lead, total                     | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000414 <sup>&lt;T</sup>  | 0.00188 <sup>&lt;T</sup>   | 0.000740 <sup>&lt;T</sup>  | <0.000050                | 0.000191 <sup>&lt;T</sup>  |
| Lithium, total                  | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0028 <sup>&lt;T</sup>    | 0.0053 <sup>&lt;T</sup>    | 0.0068 <sup>&lt;T</sup>    | <0.0010                  | 0.0065 <sup>&lt;T</sup>    |
| Magnesium, total                | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 5.25                       | 8.30                       | 12.8                       | 0.0086 <sup>&lt;T</sup>  | 12.3                       |
| Manganese, total                | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0350                     | 0.0972                     | 0.0647                     | 0.00015                  | 0.0438                     |
| Mercury, total                  | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | 0.0000055 <sup>&lt;T</sup> | 0.0000073 <sup>&lt;T</sup> | <0.0000050                 | <0.0000050               | <0.0000050                 |
| Molybdenum, total               | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000292 <sup>&lt;T</sup>  | 0.00150 <sup>&lt;T</sup>   | 0.00101 <sup>&lt;T</sup>   | <0.000050                | 0.00207 <sup>&lt;T</sup>   |
| Nickel, total                   | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00204 <sup>&lt;T</sup>   | 0.00561 <sup>&lt;T</sup>   | 0.00301 <sup>&lt;T</sup>   | <0.00050                 | 0.00172 <sup>&lt;T</sup>   |
| Phosphorus, total               | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                     | 0.115                      | <0.100 <sup>DLM</sup>      | <0.050                   | <0.050                     |
| Potassium, total                | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.38                       | 2.17                       | 4.27                       | <0.050                   | 8.08                       |
| Rubidium, total                 | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00309                    | 0.00787                    | 0.00518                    | <0.00020                 | 0.00533                    |
| Selenium, total                 | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000202 <sup>&lt;T</sup>  | 0.000286 <sup>&lt;T</sup>  | 0.000232 <sup>&lt;T</sup>  | <0.000050                | 0.000249 <sup>&lt;T</sup>  |
| Silicon, total                  | 7440-21-3  | E420/TY    | 0.10      | mg/L | 3.44                       | 7.97                       | 4.60                       | 0.32                     | 2.33                       |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW16_SW_202<br>40501<br>SW | SW17_SW_202<br>40501<br>SW | SW15_SW_202<br>40501<br>SW | FB_SW_202405<br>01<br>SW  | SW24_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>09:40      | 07-May-2024<br>09:40       | 07-May-2024<br>11:15       | 07-May-2024<br>12:00       | 07-May-2024<br>12:05      |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-001             | TY2404494-002              | TY2404494-003              | TY2404494-004              | TY2404494-005             |                            |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                     | Result                    |                            |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                            |                           |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000010                  | <0.000010                 |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 3.58                      | 3.26                       | 7.71                       | 0.426                      | 16.2                      |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0320                    | 0.0418                     | 0.0933                     | 0.00050 <sup>&lt;T</sup>   | 0.165                     |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 2.36                      | 3.41                       | 13.8                       | <0.50                      | 32.2                      |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00040 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>    | <0.00020                   | <0.00020                  |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | 0.000011 <sup>&lt;T</sup> | 0.000044 <sup>&lt;T</sup>  | <0.000020 <sup>DLM</sup>   | <0.000010                  | <0.000010                 |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | 0.00012                   | 0.00028                    | 0.00022                    | <0.00010                   | <0.00010                  |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                  |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.0191                    | 0.0712                     | 0.0378                     | <0.00030                   | 0.0102                    |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                  |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000289 <sup>&lt;T</sup> | 0.000537 <sup>&lt;T</sup>  | 0.000915 <sup>&lt;T</sup>  | <0.000010                  | 0.000684 <sup>&lt;T</sup> |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00202                   | 0.00691                    | 0.00348                    | <0.00050                   | 0.00121                   |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0091 <sup>&lt;T</sup>   | 0.0144                     | 0.0061 <sup>&lt;T</sup>    | <0.0030                    | <0.0030                   |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00065                   | 0.00120                    | 0.00088                    | <0.00020                   | 0.00042                   |                            |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                            |                           |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0824                    | 0.0875                     | 0.0476                     | 0.0050                     | 0.0336                    |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00100 <sup>DLM</sup>    | 0.00084                    | <0.00010                   | 0.00207                   |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00065                   | <0.00100 <sup>DLM</sup>    | 0.00083                    | <0.00010                   | 0.00074                   |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0134                    | 0.0173                     | 0.0185                     | 0.00072                    | 0.0188                    |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000200 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>   | <0.000020                  | <0.000040 <sup>DLM</sup>  |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000500 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000050                  | <0.000100 <sup>DLM</sup>  |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | <0.100 <sup>DLM</sup>      | 0.020                      | <0.010                     | 0.026                     |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000126                 | <0.0000500 <sup>DLM</sup>  | 0.0000127                  | <0.0000050                 | <0.0000100 <sup>DLM</sup> |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 12.8                      | 16.3                       | 29.0                       | 0.097                      | 41.0                      |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000100 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000010                  | 0.000026                  |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00500 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    | <0.00050                   | <0.00100 <sup>DLM</sup>   |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00100 <sup>DLM</sup>    | 0.00025                    | <0.00010                   | 0.00040                   |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00147                   | <0.00200 <sup>DLM</sup>    | 0.00121                    | 0.00041                    | 0.00128                   |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.217                     | 0.247                      | 0.191                      | <0.010                     | 0.146                     |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW16_SW_202<br>40501<br>SW | SW17_SW_202<br>40501<br>SW | SW15_SW_202<br>40501<br>SW | FB_SW_202405<br>01<br>SW | SW24_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>09:40 | 07-May-2024<br>09:40       | 07-May-2024<br>11:15       | 07-May-2024<br>12:00       | 07-May-2024<br>12:05     |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-001        | TY2404494-002              | TY2404494-003              | TY2404494-004              | TY2404494-005            |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                     | Result                   |                            |
| Dissolved Metals                             |            |            |           |      |                      |                            |                            |                            |                          |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000092             | <0.000500 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000050                  | <0.000100 <sup>DLM</sup> |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0017               | <0.0100 <sup>DLM</sup>     | 0.0039                     | <0.0010                    | 0.0039                   |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 5.04                 | 6.40                       | 11.6                       | 0.0170                     | 12.6                     |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0123               | 0.0303                     | 0.0297                     | 0.00012                    | 0.0316                   |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050               |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000267             | <0.000500 <sup>DLM</sup>   | 0.000988                   | <0.000050                  | 0.00194                  |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00125              | <0.00500 <sup>DLM</sup>    | 0.00129                    | <0.00050                   | 0.00142                  |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.500 <sup>DLM</sup>      | <0.100 <sup>DLM</sup>      | <0.050                     | <0.100 <sup>DLM</sup>    |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.27                 | 1.56                       | 4.08                       | <0.050                     | 7.79                     |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00168              | <0.00200 <sup>DLM</sup>    | 0.00258                    | <0.00020                   | 0.00463                  |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000164             | <0.000500 <sup>DLM</sup>   | 0.000256                   | <0.000050                  | 0.000187                 |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 2.51                 | 2.97                       | 2.46                       | 0.268                      | 1.77                     |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000100 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000010                  | <0.000020 <sup>DLM</sup> |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 4.01                 | 3.67                       | 8.57                       | 0.382                      | 17.7                     |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0307               | 0.0347                     | 0.0860                     | 0.00042                    | 0.153                    |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 2.32                 | <5.00 <sup>DLM</sup>       | 14.1                       | <0.50                      | 31.3                     |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00200 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>    | <0.00020                   | <0.00040 <sup>DLM</sup>  |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000100 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000010                  | <0.000020 <sup>DLM</sup> |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00100 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00020 <sup>DLM</sup>  |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00100 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00020 <sup>DLM</sup>  |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00425              | 0.00522                    | 0.00276                    | <0.00030                   | 0.00123                  |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00100 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00020 <sup>DLM</sup>  |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000238             | 0.000327                   | 0.000771                   | <0.000010                  | 0.000584                 |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | 0.00066              | <0.00500 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    | <0.00050                   | <0.00100 <sup>DLM</sup>  |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0016               | <0.0100 <sup>DLM</sup>     | <0.0020 <sup>DLM</sup>     | <0.0010                    | 0.0024                   |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | 0.00047              | <0.00300 <sup>DLM</sup>    | <0.00060 <sup>DLM</sup>    | <0.00030                   | <0.00060 <sup>DLM</sup>  |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                | Field                      | Field                      | Field                      | Field                    |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                | Field                      | Field                      | Field                      | Field                    |                            |
| Aggregate Organics                           |            |            |           |      |                      |                            |                            |                            |                          |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                 |            |            |       |      | Client sample ID | SW16_SW_202<br>40501<br>SW | SW17_SW_202<br>40501<br>SW | SW15_SW_202<br>40501<br>SW | FB_SW_202405<br>01<br>SW | SW24_SW_202<br>40501<br>SW |
|---------------------------------|------------|------------|-------|------|------------------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time     |            |            |       |      |                  | 07-May-2024<br>09:40       | 07-May-2024<br>09:40       | 07-May-2024<br>11:15       | 07-May-2024<br>12:00     | 07-May-2024<br>12:05       |
| Analyte                         | CAS Number | Method/Lab | LOR   | Unit |                  | TY2404494-001              | TY2404494-002              | TY2404494-003              | TY2404494-004            | TY2404494-005              |
|                                 |            |            |       |      |                  | Result                     | Result                     | Result                     | Result                   | Result                     |
| Aggregate Organics              |            |            |       |      |                  |                            |                            |                            |                          |                            |
| Biochemical oxygen demand [BOD] | ----       | E550/TY    | 2.0   | mg/L |                  | <2.0                       | <2.0                       | <2.0                       | <2.0                     | <2.0                       |
| Chemical oxygen demand [COD]    | ----       | E559-L/TY  | 10    | mg/L |                  | 75                         | 79                         | 90                         | <10                      | 68                         |
| Oil & grease (gravimetric)      | ----       | E567-L/WT  | 1.0   | mg/L |                  | <1.0                       | <1.0                       | <1.0                       | <1.0                     | 1.0                        |
| Radiological Parameters         |            |            |       |      |                  |                            |                            |                            |                          |                            |
| Radium-226                      | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L |                  | ----                       | ----                       | ----                       | ----                     | <0.005                     |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        | Client sample ID     | SW29A_SW_20<br>240501<br>SW | SW03_SW_202<br>40501<br>SW | SW10_SW_202<br>40501<br>SW | SW28A_SW_20<br>240501<br>SW | SW20_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|--------------|--------|----------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |              |        | 07-May-2024<br>12:45 | 07-May-2024<br>13:00        | 07-May-2024<br>13:30       | 07-May-2024<br>13:50       | 07-May-2024<br>14:05        |                            |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit                 | TY2404494-006               | TY2404494-007              | TY2404494-008              | TY2404494-009               | TY2404494-010              |
|                                              |            |              |        |                      | Result                      | Result                     | Result                     | Result                      | Result                     |
| Field Tests                                  |            |              |        |                      |                             |                            |                            |                             |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L                 | 5.05                        | 8.71                       | 10.85                      | 10.54                       | 10.19                      |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units             | 7.29                        | 7.61                       | 7.63                       | 7.68                        | 7.49                       |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C                   | 10.2                        | 10.8                       | 10.6                       | 12.2                        | 10.7                       |
| Physical Tests                               |            |              |        |                      |                             |                            |                            |                             |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L                 | 3.1                         | <2.0                       | 3.2                        | 2.5                         | 2.9                        |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU                   | 86.8                        | 99.6                       | 133                        | 101                         | 112                        |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm                | 149                         | 432                        | 193                        | 160                         | 209                        |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L                 | 81.1                        | 160                        | 89.0                       | 81.2                        | 90.6                       |
| pH                                           | ----       | E108/TY      | 0.10   | pH units             | 7.87                        | 8.01                       | 7.93                       | 7.95                        | 7.92                       |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L                 | 133                         | 266                        | 129                        | 104                         | 139                        |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L                 | <3.0                        | 8.6                        | 23.2                       | 3.0                         | <3.0                       |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU                  | 0.94                        | 4.72                       | 18.5                       | 2.00                        | 2.66                       |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L                 | 74.7                        | 100                        | 82.0                       | 80.4                        | 79.9                       |
| Anions and Nutrients                         |            |              |        |                      |                             |                            |                            |                             |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L                 | 0.0171 <sup>&lt;T</sup>     | 0.0359 <sup>&lt;T</sup>    | 0.0218 <sup>&lt;T</sup>    | 0.0100 <sup>&lt;T</sup>     | 0.0133 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L                 | <0.0010                     | <0.0010                    | <0.0010                    | <0.0010                     | <0.0010                    |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L                 | 0.65                        | 14.1                       | 9.43                       | 1.50                        | 15.4                       |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L                 | 0.034                       | 0.056                      | 0.034                      | 0.034                       | 0.039                      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L                 | 0.770                       | 0.991                      | 1.01                       | 0.869                       | 0.934                      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L                 | <0.020                      | 0.503                      | <0.020                     | <0.020                      | <0.020                     |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L                 | <0.010                      | <0.010                     | <0.010                     | <0.010                      | <0.010                     |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L                 | <0.0010                     | <0.0010                    | 0.0014                     | <0.0010                     | <0.0010                    |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L                 | 3.78                        | 91.8                       | 3.53                       | 1.40                        | 4.31                       |
| Cyanides                                     |            |              |        |                      |                             |                            |                            |                             |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Organic / Inorganic Carbon                   |            |              |        |                      |                             |                            |                            |                             |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L                 | 25.5                        | 27.9                       | 32.4                       | 27.1                        | 27.5                       |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW29A_SW_20<br>240501<br>SW | SW03_SW_202<br>40501<br>SW | SW10_SW_202<br>40501<br>SW | SW28A_SW_20<br>240501<br>SW | SW20_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>12:45 | 07-May-2024<br>13:00        | 07-May-2024<br>13:30       | 07-May-2024<br>13:50       | 07-May-2024<br>14:05        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-006        | TY2404494-007               | TY2404494-008              | TY2404494-009              | TY2404494-010               |                            |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                     | Result                      |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                             |                            |                            |                             |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 22.6                 | 24.3                        | 30.2                       | 24.5                       | 25.4                        |                            |
| Total Metals                                 |            |            |           |      |                      |                             |                            |                            |                             |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0248 <T            | 0.175                       | 0.653                      | 0.0516                     | 0.0979                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | 0.00190 <T                  | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00050 <T           | 0.00081 <T                  | 0.00088 <T                 | 0.00068 <T                 | 0.00062 <T                  |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.00978              | 0.0223                      | 0.0196                     | 0.0108                     | 0.0144                      |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                   | 0.000033 <T                | <0.000020                  | <0.000020                   |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                   |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.011 <T             | 0.028 <T                    | 0.014 <T                   | <0.010                     | 0.014 <T                    |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050           | 0.0000114 <T                | 0.0000124 <T               | <0.0000050                 | 0.0000062 <T                |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 17.1                 | 42.3                        | 20.2                       | 17.7                       | 19.1                        |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010            | 0.000044                    | 0.000093                   | <0.000010                  | <0.000010                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | 0.00054 <T                  | 0.00146 <T                 | <0.00050                   | <0.00050                    |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010             | 0.00046 <T                  | 0.00047 <T                 | <0.00010                   | 0.00012 <T                  |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00072 <T           | 0.00187 <T                  | 0.00172 <T                 | 0.00074 <T                 | 0.00107 <T                  |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.105                | 0.323                       | 0.867                      | 0.173                      | 0.207                       |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050            | 0.000130 <T                 | 0.000388 <T                | 0.000063 <T                | 0.000065 <T                 |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0030 <T            | 0.0070 <T                   | 0.0046 <T                  | 0.0030 <T                  | 0.0042 <T                   |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 8.25                 | 13.7                        | 9.66                       | 8.94                       | 9.42                        |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.00912              | 0.0363                      | 0.0357                     | 0.00975                    | 0.0136                      |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                  |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000385 <T          | 0.00198 <T                  | 0.000463 <T                | 0.000444 <T                | 0.000436 <T                 |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00088 <T           | 0.00166 <T                  | 0.00215 <T                 | 0.00082 <T                 | 0.00129 <T                  |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                      | 0.051                      | <0.050                     | <0.050                      |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.21                 | 7.62                        | 1.78                       | 1.34                       | 1.58                        |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00126              | 0.00464                     | 0.00297                    | 0.00217                    | 0.00150                     |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000165 <T          | 0.000245 <T                 | 0.000183 <T                | 0.000117 <T                | 0.000191 <T                 |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 1.52                 | 1.86                        | 3.12                       | 1.67                       | 1.88                        |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   |                            |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW29A_SW_20<br>240501<br>SW | SW03_SW_202<br>40501<br>SW | SW10_SW_202<br>40501<br>SW | SW28A_SW_20<br>240501<br>SW | SW20_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>12:45      | 07-May-2024<br>13:00        | 07-May-2024<br>13:30       | 07-May-2024<br>13:50       | 07-May-2024<br>14:05        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-006             | TY2404494-007               | TY2404494-008              | TY2404494-009              | TY2404494-010               |                            |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                     | Result                      |                            |
| Total Metals                                 |            |            |           |      |                           |                             |                            |                            |                             |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 1.40                      | 16.1                        | 4.61                       | 1.09                       | 7.10                        |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0403                    | 0.173                       | 0.0543                     | 0.0373                     | 0.0529                      |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.62                      | 31.5                        | 1.71                       | 0.94                       | 1.99                        |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                    |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | 0.000010                   | <0.000010                  | <0.000010                   |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | 0.00012                    | <0.00010                   | <0.00010                    |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | <0.00150 <sup>DLM</sup>   | 0.00856                     | 0.0198                     | 0.00155                    | 0.00334                     |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000107 <sup>&lt;T</sup> | 0.000855 <sup>&lt;T</sup>   | 0.000471 <sup>&lt;T</sup>  | 0.000279 <sup>&lt;T</sup>  | 0.000319 <sup>&lt;T</sup>   |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00106                     | 0.00246                    | <0.00050                   | 0.00074                     |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | <0.0030                     | 0.0056 <sup>&lt;T</sup>    | <0.0030                    | <0.0030                     |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                  | 0.00034                     | 0.00073                    | <0.00020                   | 0.00036                     |                            |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                            |                             |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0132                    | 0.0191                      | 0.0304                     | 0.0136                     | 0.0284                      |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>   | 0.00179                     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00048                   | 0.00071                     | 0.00070                    | 0.00059                    | 0.00059                     |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00918                   | 0.0198                      | 0.0137                     | 0.00910                    | 0.0127                      |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000040 <sup>DLM</sup>  | <0.000040 <sup>DLM</sup>    | <0.000040 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>    |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000100 <sup>DLM</sup>  | <0.000100 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>    |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.020 <sup>DLM</sup>     | 0.026                       | <0.020 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>       |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000100 <sup>DLM</sup> | <0.0000100 <sup>DLM</sup>   | <0.0000100 <sup>DLM</sup>  | <0.0000100 <sup>DLM</sup>  | <0.0000100 <sup>DLM</sup>   |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 18.2                      | 41.8                        | 20.4                       | 18.5                       | 20.6                        |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup>  | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>    |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>   | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>     |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>   | 0.00034                     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00068                   | 0.00158                     | 0.00106                    | 0.00070                    | 0.00094                     |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.083                     | 0.112                       | 0.156                      | 0.102                      | 0.132                       |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000100 <sup>DLM</sup>  | <0.000100 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>    |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID         | SW29A_SW_20<br>240501<br>SW | SW03_SW_202<br>40501<br>SW | SW10_SW_202<br>40501<br>SW | SW28A_SW_20<br>240501<br>SW | SW20_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|--------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>12:45     | 07-May-2024<br>13:00        | 07-May-2024<br>13:30       | 07-May-2024<br>13:50       | 07-May-2024<br>14:05        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-006            | TY2404494-007               | TY2404494-008              | TY2404494-009              | TY2404494-010               |                            |
|                                              |            |            |           |      | Result                   | Result                      | Result                     | Result                     | Result                      |                            |
| Dissolved Metals                             |            |            |           |      |                          |                             |                            |                            |                             |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0023                   | 0.0048                      | 0.0026                     | <0.0020 <sup>DLM</sup>     | 0.0026                      |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 8.65                     | 13.4                        | 9.24                       | 8.50                       | 9.50                        |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00925                  | 0.0285                      | 0.0224                     | 0.00247                    | 0.0116                      |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050               | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                  |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000376                 | 0.00190                     | 0.000452                   | 0.000378                   | 0.000416                    |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>  | 0.00138                     | 0.00133                    | <0.00100 <sup>DLM</sup>    | 0.00114                     |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.100 <sup>DLM</sup>    | <0.100 <sup>DLM</sup>       | <0.100 <sup>DLM</sup>      | <0.100 <sup>DLM</sup>      | <0.100 <sup>DLM</sup>       |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.21                     | 7.31                        | 1.60                       | 1.26                       | 1.57                        |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00126                  | 0.00414                     | 0.00121                    | 0.00193                    | 0.00134                     |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000136                 | 0.000211                    | 0.000162                   | 0.000122                   | 0.000174                    |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.54                     | 1.48                        | 1.68                       | 1.51                       | 1.62                        |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>    |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 1.40                     | 17.6                        | 4.92                       | 1.04                       | 7.76                        |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0369                   | 0.156                       | 0.0492                     | 0.0334                     | 0.0490                      |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 1.31                     | 30.1                        | 1.36                       | <1.00 <sup>DLM</sup>       | 1.62                        |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00040 <sup>DLM</sup>  | <0.00040 <sup>DLM</sup>     | <0.00040 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>     |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>    |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | <0.00060 <sup>DLM</sup>  | 0.00105                     | 0.00242                    | <0.00060 <sup>DLM</sup>    | 0.00149                     |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000096                 | 0.000733                    | 0.000382                   | 0.000247                   | 0.000276                    |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>  | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>     |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0020 <sup>DLM</sup>   | 0.0038                      | <0.0020 <sup>DLM</sup>     | <0.0020 <sup>DLM</sup>     | 0.0030                      |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00060 <sup>DLM</sup>  | <0.00060 <sup>DLM</sup>     | <0.00060 <sup>DLM</sup>    | <0.00060 <sup>DLM</sup>    | <0.00060 <sup>DLM</sup>     |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                    | Field                       | Field                      | Field                      | Field                       |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                    | Field                       | Field                      | Field                      | Field                       |                            |
| Aggregate Organics                           |            |            |           |      |                          |                             |                            |                            |                             |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                     | <2.0                        | <2.0                       | <2.0                       | <2.0                        |                            |



Analytical Results

|                                              |            |            |       |      |                  |                             |                            |                            |                             |                            |
|----------------------------------------------|------------|------------|-------|------|------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW29A_SW_20<br>240501<br>SW | SW03_SW_202<br>40501<br>SW | SW10_SW_202<br>40501<br>SW | SW28A_SW_20<br>240501<br>SW | SW20_SW_202<br>40501<br>SW |
| Client sampling date / time                  |            |            |       |      |                  | 07-May-2024<br>12:45        | 07-May-2024<br>13:00       | 07-May-2024<br>13:30       | 07-May-2024<br>13:50        | 07-May-2024<br>14:05       |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2404494-006    | TY2404494-007               | TY2404494-008              | TY2404494-009              | TY2404494-010               |                            |
|                                              |            |            |       |      | Result           | Result                      | Result                     | Result                     | Result                      |                            |
| Aggregate Organics                           |            |            |       |      |                  |                             |                            |                            |                             |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 63               | 65                          | 80                         | 66                         | 65                          |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | <1.0             | 1.4                         | 1.0                        | <1.0                       | <1.0                        |                            |
| Radiological Parameters                      |            |            |       |      |                  |                             |                            |                            |                             |                            |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | ----             | ----                        | ----                       | ----                       | 0.006                       |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW22A_SW_20<br>240501<br>SW | SW27_SW_202<br>40501<br>SW | SW21A_SW_20<br>240501<br>SW | SW26_SW_202<br>40501<br>SW | SW23_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |              |        |          | 07-May-2024<br>14:30    | 07-May-2024<br>15:20        | 07-May-2024<br>15:35       | 07-May-2024<br>15:50        | 09-May-2024<br>11:50       |                            |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2404494-011           | TY2404494-012               | TY2404494-013              | TY2404494-014               | TY2404494-015              |                            |
|                                              |            |              |        |          | Result                  | Result                      | Result                     | Result                      | Result                     |                            |
| Field Tests                                  |            |              |        |          |                         |                             |                            |                             |                            |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 10.9                    | 10.1                        | 9.27                       | 9.23                        | 8.59                       |                            |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.71                    | 7.71                        | 7.60                       | 7.96                        | 7.49                       |                            |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 11.4                    | 10.9                        | 11.7                       | 11.6                        | 10.5                       |                            |
| Physical Tests                               |            |              |        |          |                         |                             |                            |                             |                            |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 2.2                     | <2.0                        | 2.4                        | <2.0                        | 2.8                        |                            |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 82.7                    | 68.5                        | 99.4                       | 66.0                        | 129                        |                            |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 490                     | 286                         | 297                        | 263                         | 295                        |                            |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 182                     | 133                         | 126                        | 122                         | 123                        |                            |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 8.05                    | 8.14                        | 8.05                       | 8.13                        | 7.96                       |                            |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 293                     | 146                         | 166                        | 147                         | 208                        |                            |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 5.8                     | <3.0                        | 3.4                        | 7.2                         | 9.0                        |                            |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 2.98                    | 3.24                        | 2.88                       | 5.62                        | 7.44                       |                            |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 108                     | 123                         | 100                        | 109                         | 85.8                       |                            |
| Anions and Nutrients                         |            |              |        |          |                         |                             |                            |                             |                            |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0465 <sup>&lt;T</sup> | 0.0104 <sup>&lt;T</sup>     | 0.0175 <sup>&lt;T</sup>    | 0.0184 <sup>&lt;T</sup>     | 0.0345 <sup>&lt;T</sup>    |                            |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                     | <0.0010                    | <0.0010                     | <0.0010                    |                            |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 16.5                    | 9.05                        | 11.5                       | 9.85                        | 7.92                       |                            |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.064                   | 0.051                       | 0.046                      | 0.035                       | 0.043                      |                            |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.949                   | 0.704                       | 0.937                      | 0.646                       | 1.13                       |                            |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.652                   | <0.020                      | 0.421                      | <0.020                      | 0.241 <sup>&lt;T</sup>     |                            |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                  | <0.010                      | <0.010                     | <0.010                      | <0.010                     |                            |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                     | 0.0042                     | <0.0010                     | <0.0010                    |                            |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 116                     | 15.4                        | 31.8                       | 13.2                        | 46.1                       |                            |
| Cyanides                                     |            |              |        |          |                         |                             |                            |                             |                            |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                     | <0.0020                    |                            |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                     | <0.0020                    |                            |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                     | <0.0020                    |                            |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                             |                            |                             |                            |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 23.7                    | 21.3                        | 25.9                       | 22.4                        | 31.2                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW22A_SW_20<br>240501<br>SW | SW27_SW_202<br>40501<br>SW | SW21A_SW_20<br>240501<br>SW | SW26_SW_202<br>40501<br>SW | SW23_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>14:30 | 07-May-2024<br>15:20        | 07-May-2024<br>15:35       | 07-May-2024<br>15:50        | 09-May-2024<br>11:50       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-011        | TY2404494-012               | TY2404494-013              | TY2404494-014               | TY2404494-015              |                            |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                      | Result                     |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                             |                            |                             |                            |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 20.4                 | 20.4                        | 25.4                       | 20.0                        | 30.0                       |                            |
| Total Metals                                 |            |            |           |      |                      |                             |                            |                             |                            |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0914               | 0.102                       | 0.0720                     | 0.143                       | 0.279                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00237 <T           | 0.00012 <T                  | 0.00019 <T                 | 0.00012 <T                  | 0.00094 <T                 |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00078 <T           | 0.00070 <T                  | 0.00078 <T                 | 0.00078 <T                  | 0.00088 <T                 |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0226               | 0.0199                      | 0.0200                     | 0.0183                      | 0.0211                     |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                   | <0.000020                  | <0.000020                   | <0.000020                  |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                   | <0.000050                  | <0.000050                   | <0.000050                  |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.032 <T             | 0.012 <T                    | 0.020 <T                   | 0.012 <T                    | 0.020 <T                   |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000083 <T         | 0.0000083 <T                | 0.0000073 <T               | 0.0000063 <T                | 0.0000126 <T               |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 47.2                 | 33.6                        | 28.9                       | 30.4                        | 30.9                       |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000060             | 0.000011                    | <0.000010                  | 0.000020                    | 0.000039                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                    | <0.00050                   | <0.00050                    | 0.00067 <T                 |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00046 <T           | 0.00013 <T                  | 0.00016 <T                 | 0.00014 <T                  | 0.00041 <T                 |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00143 <T           | 0.00149 <T                  | 0.00123 <T                 | 0.00146 <T                  | 0.00150 <T                 |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.218                | 0.162                       | 0.211                      | 0.217                       | 0.454                      |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000076 <T          | 0.000084 <T                 | 0.000060 <T                | 0.000128 <T                 | 0.000200 <T                |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0076 <T            | 0.0041 <T                   | 0.0062 <T                  | 0.0039 <T                   | 0.0054 <T                  |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 15.0                 | 13.3                        | 13.6                       | 11.6                        | 11.7                       |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0272               | 0.0212                      | 0.0200                     | 0.0202                      | 0.0436                     |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                  | <0.0000050                 | <0.0000050                  | <0.0000050                 |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.00240 <T           | 0.000601 <T                 | 0.000892 <T                | 0.000632 <T                 | 0.00117 <T                 |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00162 <T           | 0.00122 <T                  | 0.00137 <T                 | 0.00122 <T                  | 0.00167 <T                 |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | <0.050                      | <0.050                     | <0.050                      | <0.050                     |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 9.31                 | 1.99                        | 2.47                       | 1.86                        | 4.50                       |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00532              | 0.00152                     | 0.00174                    | 0.00160                     | 0.00361                    |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000233 <T          | 0.000195 <T                 | 0.000229 <T                | 0.000177 <T                 | 0.000214 <T                |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 1.49                 | 2.05                        | 1.42                       | 1.94                        | 2.57                       |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                  |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW22A_SW_20<br>240501<br>SW | SW27_SW_202<br>40501<br>SW | SW21A_SW_20<br>240501<br>SW | SW26_SW_202<br>40501<br>SW | SW23_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>14:30      | 07-May-2024<br>15:20        | 07-May-2024<br>15:35       | 07-May-2024<br>15:50        | 09-May-2024<br>11:50       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-011             | TY2404494-012               | TY2404494-013              | TY2404494-014               | TY2404494-015              |                            |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                      | Result                     |                            |
| Total Metals                                 |            |            |           |      |                           |                             |                            |                             |                            |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 19.5                      | 3.64                        | 7.45                       | 3.19                        | 8.73                       |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.204                     | 0.0767                      | 0.111                      | 0.0727                      | 0.103                      |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 38.8                      | 5.59                        | 10.8                       | 4.80                        | 17.0                       |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                    | <0.00020                   |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                  |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00383                   | 0.00387                     | 0.00267                    | 0.00508                     | 0.0103                     |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000965 <sup>&lt;T</sup> | 0.00107 <sup>&lt;T</sup>    | 0.000744 <sup>&lt;T</sup>  | 0.000961 <sup>&lt;T</sup>   | 0.000580 <sup>&lt;T</sup>  |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00075                   | 0.00082                     | 0.00075                    | 0.00087                     | 0.00131                    |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | 0.0065 <sup>&lt;T</sup>     | <0.0030                    | 0.0062 <sup>&lt;T</sup>     | <0.0030                    |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00029                   | 0.00043                     | 0.00041                    | 0.00028                     | 0.00045                    |                            |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                             |                            |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0129                    | 0.0138                      | 0.0144                     | 0.0168                      | 0.0358                     |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | 0.00228                   | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     | 0.00094                    |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00069                   | 0.00062                     | 0.00066                    | 0.00065                     | 0.00072                    |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0202                    | 0.0166                      | 0.0164                     | 0.0149                      | 0.0168                     |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000040 <sup>DLM</sup>  | <0.000040 <sup>DLM</sup>    | <0.000040 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>    | <0.000040 <sup>DLM</sup>   |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000100 <sup>DLM</sup>  | <0.000100 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.031                     | <0.020 <sup>DLM</sup>       | <0.020 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>       | <0.020 <sup>DLM</sup>      |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000100 <sup>DLM</sup> | <0.0000100 <sup>DLM</sup>   | <0.0000100 <sup>DLM</sup>  | <0.0000100 <sup>DLM</sup>   | <0.0000100 <sup>DLM</sup>  |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 48.2                      | 32.5                        | 29.5                       | 30.7                        | 31.2                       |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | 0.000048                  | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>   | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00040                   | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     | 0.00025                    |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00127                   | 0.00138                     | 0.00102                    | 0.00117                     | 0.00125                    |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.103                     | 0.109                       | 0.125                      | 0.066                       | 0.151                      |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000100 <sup>DLM</sup>  | <0.000100 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID         | SW22A_SW_20<br>240501<br>SW | SW27_SW_202<br>40501<br>SW | SW21A_SW_20<br>240501<br>SW | SW26_SW_202<br>40501<br>SW | SW23_SW_202<br>40501<br>SW |
|----------------------------------------------|------------|------------|-----------|------|--------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 07-May-2024<br>14:30     | 07-May-2024<br>15:20        | 07-May-2024<br>15:35       | 07-May-2024<br>15:50        | 09-May-2024<br>11:50       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-011            | TY2404494-012               | TY2404494-013              | TY2404494-014               | TY2404494-015              |                            |
|                                              |            |            |           |      | Result                   | Result                      | Result                     | Result                      | Result                     |                            |
| Dissolved Metals                             |            |            |           |      |                          |                             |                            |                             |                            |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0055                   | 0.0027                      | 0.0046                     | 0.0024                      | 0.0034                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 15.0                     | 12.6                        | 12.8                       | 11.1                        | 10.9                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0206                   | 0.0163                      | 0.0159                     | 0.0109                      | 0.0314                     |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050               | <0.0000050                  | <0.0000050                 | <0.0000050                  | <0.0000050                 |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.00230                  | 0.000559                    | 0.000821                   | 0.000543                    | 0.00115                    |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00148                  | 0.00108                     | 0.00114                    | <0.00100 <sup>DLM</sup>     | 0.00130                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.100 <sup>DLM</sup>    | <0.100 <sup>DLM</sup>       | <0.100 <sup>DLM</sup>      | <0.100 <sup>DLM</sup>       | <0.100 <sup>DLM</sup>      |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 8.78                     | 1.83                        | 2.27                       | 1.74                        | 4.44                       |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00510                  | 0.00112                     | 0.00146                    | 0.00130                     | 0.00276                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000265                 | 0.000150                    | 0.000152                   | 0.000160                    | 0.000172                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.23                     | 1.81                        | 1.22                       | 1.58                        | 1.90                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 21.8                     | 3.79                        | 7.74                       | 3.56                        | 9.82                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.187                    | 0.0673                      | 0.0954                     | 0.0623                      | 0.104                      |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 38.5                     | 5.02                        | 9.71                       | 4.25                        | 15.8                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00040 <sup>DLM</sup>  | <0.00040 <sup>DLM</sup>     | <0.00040 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>     | <0.00040 <sup>DLM</sup>    |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | <0.00126 <sup>DLM</sup>  | 0.00141                     | 0.00097                    | 0.00144                     | <0.00180 <sup>DLM</sup>    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000840                 | 0.000916                    | 0.000626                   | 0.000824                    | 0.000518                   |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>  | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0020 <sup>DLM</sup>   | 0.0032                      | <0.0020 <sup>DLM</sup>     | 0.0065                      | 0.0022                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00060 <sup>DLM</sup>  | <0.00060 <sup>DLM</sup>     | <0.00060 <sup>DLM</sup>    | <0.00060 <sup>DLM</sup>     | <0.00060 <sup>DLM</sup>    |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                    | Field                       | Field                      | Field                       | Field                      |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                    | Field                       | Field                      | Field                       | Field                      |                            |
| Aggregate Organics                           |            |            |           |      |                          |                             |                            |                             |                            |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                     | <2.0                        | <2.0                       | <2.0                        | <2.0                       |                            |



Analytical Results

|                                              |            |            |       |      |                  |                             |                            |                             |                            |                            |
|----------------------------------------------|------------|------------|-------|------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW22A_SW_20<br>240501<br>SW | SW27_SW_202<br>40501<br>SW | SW21A_SW_20<br>240501<br>SW | SW26_SW_202<br>40501<br>SW | SW23_SW_202<br>40501<br>SW |
| Client sampling date / time                  |            |            |       |      |                  | 07-May-2024<br>14:30        | 07-May-2024<br>15:20       | 07-May-2024<br>15:35        | 07-May-2024<br>15:50       | 09-May-2024<br>11:50       |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2404494-011    | TY2404494-012               | TY2404494-013              | TY2404494-014               | TY2404494-015              |                            |
|                                              |            |            |       |      | Result           | Result                      | Result                     | Result                      | Result                     |                            |
| Aggregate Organics                           |            |            |       |      |                  |                             |                            |                             |                            |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 56               | 51                          | 64                         | 49                          | 76                         |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | <1.0             | <1.0                        | <1.0                       | <1.0                        | <1.0                       |                            |
| Radiological Parameters                      |            |            |       |      |                  |                             |                            |                             |                            |                            |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | <0.005           | ----                        | ----                       | ----                        | <0.005                     |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.





Analytical Results

|                                              |            |              |        |          |                         |                            |                            |                            |                          |      |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW02_SW_202<br>40501<br>SW | SW06_SW_202<br>40501<br>SW | SW25_SW_202<br>40501<br>SW | TB_SW_20240<br>501<br>SW | ---- |
| Client sampling date / time                  |            |              |        |          |                         | 07-May-2024<br>16:30       | 07-May-2024<br>12:00       | 07-May-2024<br>16:10       | 07-May-2024<br>12:00     | ---- |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2404494-016           | TY2404494-017              | TY2404494-018              | TY2404494-019              | -----                    |      |
|                                              |            |              |        |          | Result                  | Result                     | Result                     | Result                     | ----                     |      |
| Field Tests                                  |            |              |        |          |                         |                            |                            |                            |                          |      |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 7.66                    | 8.68                       | 8.68                       | ----                       | ----                     |      |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.16                    | 7.94                       | 7.94                       | ----                       | ----                     |      |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 11.8                    | 11.8                       | 11.8                       | ----                       | ----                     |      |
| Physical Tests                               |            |              |        |          |                         |                            |                            |                            |                          |      |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 3.3                     | <2.0                       | <2.0                       | 2.6                        | ----                     |      |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 126                     | 67.8                       | 67.4                       | <2.0                       | ----                     |      |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 106                     | 257                        | 256                        | <1.0                       | ----                     |      |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 59.3                    | 124                        | 145                        | <0.50                      | ----                     |      |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.75                    | 8.12                       | 8.11                       | 5.31                       | ----                     |      |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 89                      | 124                        | 126                        | <10                        | ----                     |      |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 4.6                     | 3.2                        | 4.6                        | <3.0                       | ----                     |      |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 1.70                    | 3.12                       | 4.24                       | <0.10                      | ----                     |      |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 54.5                    | 108                        | 108                        | <2.0                       | ----                     |      |
| Anions and Nutrients                         |            |              |        |          |                         |                            |                            |                            |                          |      |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0205 <sup>&lt;T</sup> | 0.0147 <sup>&lt;T</sup>    | 0.0148 <sup>&lt;T</sup>    | <0.0050                    | ----                     |      |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                    | <0.0010                    | ----                       | ----                     |      |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 0.33                    | 11.4                       | 11.8                       | <0.10                      | ----                     |      |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020                  | 0.037                      | 0.042                      | <0.020                     | ----                     |      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.800                   | 0.649                      | 0.660                      | <0.050                     | ----                     |      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                  | <0.020                     | <0.020                     | <0.020                     | ----                     |      |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                  | <0.010                     | <0.010                     | <0.010                     | ----                     |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                    | <0.0010                    | <0.0010                    | ----                     |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 0.85                    | 11.0                       | 11.1                       | <0.30                      | ----                     |      |
| Cyanides                                     |            |              |        |          |                         |                            |                            |                            |                          |      |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | <0.0020                    | <0.0020                    | ----                     |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | <0.0020                    | <0.0020                    | ----                     |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | <0.0020                    | <0.0020                    | ----                     |      |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                            |                            |                            |                          |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 29.4                    | 21.0                       | 20.7                       | <0.50                      | ----                     |      |



Analytical Results

|                                              |            |            |           |      |                           |                            |                            |                            |                          |      |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW02_SW_202<br>40501<br>SW | SW06_SW_202<br>40501<br>SW | SW25_SW_202<br>40501<br>SW | TB_SW_20240<br>501<br>SW | ---- |
| Client sampling date / time                  |            |            |           |      |                           | 07-May-2024<br>16:30       | 07-May-2024<br>12:00       | 07-May-2024<br>16:10       | 07-May-2024<br>12:00     | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2404494-016             | TY2404494-017              | TY2404494-018              | TY2404494-019              | -----                    |      |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                     | ----                     |      |
| Organic / Inorganic Carbon                   |            |            |           |      |                           |                            |                            |                            |                          |      |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 29.2                      | 20.4                       | 19.8                       | <0.50                      |                          | ---- |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                            |                          |      |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0833                    | 0.100                      | 0.107                      | <0.0030                    |                          | ---- |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                  | 0.00010                    | 0.00011 <sup>&lt;T</sup>   | <0.00010                   |                          | ---- |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00062 <sup>&lt;T</sup>  | 0.00075 <sup>&lt;T</sup>   | 0.00071 <sup>&lt;T</sup>   | <0.00010                   |                          | ---- |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.00759                   | 0.0166                     | 0.0168                     | 0.00038                    |                          | ---- |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                  |                          | ---- |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                  |                          | ---- |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010                    | 0.010                      | 0.011 <sup>&lt;T</sup>     | <0.010                     |                          | ---- |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000063 <sup>&lt;T</sup> | 0.0000051 <sup>&lt;T</sup> | <0.0000050                 |                          | ---- |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 13.2                      | 29.3                       | 29.9                       | 0.064                      |                          | ---- |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010                 | 0.000012                   | 0.000013                   | <0.000010                  |                          | ---- |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                   |                          | ---- |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010                  | 0.00011 <sup>&lt;T</sup>   | 0.00012 <sup>&lt;T</sup>   | <0.00010                   |                          | ---- |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00061 <sup>&lt;T</sup>  | 0.00114 <sup>&lt;T</sup>   | 0.00116 <sup>&lt;T</sup>   | <0.00050                   |                          | ---- |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.187                     | 0.162                      | 0.165                      | <0.010                     |                          | ---- |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000073 <sup>&lt;T</sup> | 0.000097 <sup>&lt;T</sup>  | 0.000105 <sup>&lt;T</sup>  | <0.000050                  |                          | ---- |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0016 <sup>&lt;T</sup>   | 0.0035 <sup>&lt;T</sup>    | 0.0038 <sup>&lt;T</sup>    | <0.0010                    |                          | ---- |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 6.22                      | 11.7                       | 11.2                       | <0.0050                    |                          | ---- |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.00969                   | 0.0184                     | 0.0200                     | <0.00010                   |                          | ---- |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                 | <0.0000050                 | <0.0000050                 |                          | ---- |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000189 <sup>&lt;T</sup> | 0.000532 <sup>&lt;T</sup>  | 0.000548 <sup>&lt;T</sup>  | <0.000050                  |                          | ---- |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00064 <sup>&lt;T</sup>  | 0.00100 <sup>&lt;T</sup>   | 0.00100 <sup>&lt;T</sup>   | <0.00050                   |                          | ---- |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                    | <0.050                     | <0.050                     | <0.050                     |                          | ---- |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.827                     | 1.96                       | 1.95                       | <0.050                     |                          | ---- |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00183                   | 0.00173                    | 0.00173                    | <0.00020                   |                          | ---- |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000128 <sup>&lt;T</sup> | 0.000122 <sup>&lt;T</sup>  | 0.000175 <sup>&lt;T</sup>  | <0.000050                  |                          | ---- |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.07                      | 2.24                       | 2.23                       | <0.10                      |                          | ---- |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                  |                          | ---- |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID               | SW02_SW_202<br>40501<br>SW | SW06_SW_202<br>40501<br>SW | SW25_SW_202<br>40501<br>SW | TB_SW_20240<br>501<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|--------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Client sampling date / time |            |            |           |      |                                | 07-May-2024<br>16:30       | 07-May-2024<br>12:00       | 07-May-2024<br>16:10       | 07-May-2024<br>12:00     | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2404494-016                  | TY2404494-017              | TY2404494-018              | TY2404494-019              | -----                    |      |
|                             |            |            |           |      | Result                         | Result                     | Result                     | Result                     | ----                     |      |
| Total Metals                |            |            |           |      |                                |                            |                            |                            |                          |      |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 0.908                          | 3.55                       | 3.50                       | <0.050                     |                          | ---- |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0219                         | 0.0698                     | 0.0708                     | <0.00020                   |                          | ---- |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 0.66                           | 4.30                       | 4.34                       | <0.50                      |                          | ---- |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                       | <0.00020                   | <0.00020                   | <0.00020                   |                          | ---- |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                      | <0.000010                  | <0.000010                  | <0.000010                  |                          | ---- |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                       | <0.00010                   | <0.00010                   | <0.00010                   |                          | ---- |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                       | <0.00010                   | <0.00010                   | <0.00010                   |                          | ---- |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00218                        | 0.00357                    | 0.00374                    | <0.00030                   |                          | ---- |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                       | <0.00010                   | <0.00010                   | <0.00010                   |                          | ---- |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000054 <sup>&lt;T</sup>      | 0.000928 <sup>&lt;T</sup>  | 0.000889 <sup>&lt;T</sup>  | <0.000010                  |                          | ---- |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                       | 0.00065                    | 0.00067                    | <0.00050                   |                          | ---- |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                        | 0.0037 <sup>&lt;T</sup>    | 0.0038 <sup>&lt;T</sup>    | <0.0030                    |                          | ---- |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                       | 0.00025                    | 0.00035                    | <0.00020                   |                          | ---- |
| Dissolved Metals            |            |            |           |      |                                |                            |                            |                            |                          |      |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0299                         | 0.0182                     | 0.0204                     | <0.0010                    |                          | ---- |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>        | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   |                          | ---- |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00064                        | 0.00066                    | 0.00068                    | <0.00010                   |                          | ---- |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00649                        | 0.0143                     | 0.0139                     | 0.00034                    |                          | ---- |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000040 <sup>DLM</sup>       | <0.000040 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>   | <0.000020                  |                          | ---- |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000100 <sup>DLM</sup>       | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000050                  |                          | ---- |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.020 <sup>DLM</sup>          | <0.020 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>      | <0.010                     |                          | ---- |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000100 <sup>DLM, DTC</sup> | <0.0000100 <sup>DLM</sup>  | 0.000232                   | <0.0000050                 |                          | ---- |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 13.7                           | 30.8                       | 39.6                       | 0.061                      |                          | ---- |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup>       | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000010                  |                          | ---- |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>        | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    | <0.00050                   |                          | ---- |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>        | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   |                          | ---- |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00055                        | 0.00110                    | 0.00104                    | <0.00020                   |                          | ---- |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.117                          | 0.070                      | 0.072                      | <0.010                     |                          | ---- |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000100 <sup>DLM, DTC</sup>  | <0.000100 <sup>DLM</sup>   | 0.000521                   | <0.000050                  |                          | ---- |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                       |            |            |           |      | Client sample ID            | SW02_SW_202<br>40501<br>SW | SW06_SW_202<br>40501<br>SW | SW25_SW_202<br>40501<br>SW | TB_SW_20240<br>501<br>SW | ---- |
|---------------------------------------|------------|------------|-----------|------|-----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Client sampling date / time           |            |            |           |      |                             | 07-May-2024<br>16:30       | 07-May-2024<br>12:00       | 07-May-2024<br>16:10       | 07-May-2024<br>12:00     | ---- |
| Analyte                               | CAS Number | Method/Lab | LOR       | Unit | TY2404494-016               | TY2404494-017              | TY2404494-018              | TY2404494-019              | -----                    |      |
|                                       |            |            |           |      | Result                      | Result                     | Result                     | Result                     | ----                     |      |
| Dissolved Metals                      |            |            |           |      |                             |                            |                            |                            |                          |      |
| Lithium, dissolved                    | 7439-93-2  | E421/TY    | 0.0010    | mg/L | <0.0020 <sup>DLM</sup>      | 0.0023                     | 0.0026                     | <0.0010                    |                          | ---- |
| Magnesium, dissolved                  | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 6.10                        | 11.5                       | 11.2                       | <0.0050                    |                          | ---- |
| Manganese, dissolved                  | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00668                     | 0.0109                     | 0.0125                     | <0.00010                   |                          | ---- |
| Mercury, dissolved                    | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 |                          | ---- |
| Molybdenum, dissolved                 | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000216                    | 0.000507                   | 0.000506                   | <0.000050                  |                          | ---- |
| Nickel, dissolved                     | 7440-02-0  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    | 0.00103                    | <0.00050                   |                          | ---- |
| Phosphorus, dissolved                 | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.100 <sup>DLM</sup>       | <0.100 <sup>DLM</sup>      | <0.100 <sup>DLM</sup>      | <0.050                     |                          | ---- |
| Potassium, dissolved                  | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.833                       | 2.03                       | 1.82                       | <0.050                     |                          | ---- |
| Rubidium, dissolved                   | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00160                     | 0.00138                    | 0.00149                    | <0.00020                   |                          | ---- |
| Selenium, dissolved                   | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000115                    | 0.000139                   | 0.000141                   | <0.000050                  |                          | ---- |
| Silicon, dissolved                    | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.97                        | 1.89                       | 1.87                       | <0.050                     |                          | ---- |
| Silver, dissolved                     | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000010                  |                          | ---- |
| Sodium, dissolved                     | 7440-23-5  | E421/TY    | 0.050     | mg/L | 0.922                       | 4.00                       | 3.82                       | <0.050                     |                          | ---- |
| Strontium, dissolved                  | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0202                      | 0.0639                     | 0.0672                     | <0.00020                   |                          | ---- |
| Sulfur, dissolved                     | 7704-34-9  | E421/TY    | 0.50      | mg/L | <1.00 <sup>DLM</sup>        | 3.83                       | 3.87                       | <0.50                      |                          | ---- |
| Tellurium, dissolved                  | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00040 <sup>DLM</sup>     | <0.00040 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>    | <0.00020                   |                          | ---- |
| Thallium, dissolved                   | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000020 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000010                  |                          | ---- |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   |                          | ---- |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   |                          | ---- |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00077                     | 0.00131                    | 0.00106                    | <0.00030                   |                          | ---- |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00020 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00010                   |                          | ---- |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000043                    | 0.000821                   | 0.000797                   | <0.000010                  |                          | ---- |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00100 <sup>DLM</sup>     | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    | <0.00050                   |                          | ---- |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0020 <sup>DLM, DTC</sup> | 0.0163 <sup>DTC</sup>      | 0.316                      | <0.0010                    |                          | ---- |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00060 <sup>DLM</sup>     | <0.00060 <sup>DLM</sup>    | <0.00060 <sup>DLM</sup>    | <0.00030                   |                          | ---- |
| Dissolved mercury filtration location | ----       | EP509/WT   | -         | -    | Field                       | Field                      | Field                      | Field                      |                          | ---- |
| Dissolved metals filtration location  | ----       | EP421/TY   | -         | -    | Field                       | Field                      | Field                      | Field                      |                          | ---- |
| Aggregate Organics                    |            |            |           |      |                             |                            |                            |                            |                          |      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0       | mg/L | <2.0                        | <2.0                       | <2.0                       | <2.0                       |                          | ---- |



Analytical Results

|                                              |            |            |     |      |                  |                            |                            |                            |                          |      |
|----------------------------------------------|------------|------------|-----|------|------------------|----------------------------|----------------------------|----------------------------|--------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |     |      | Client sample ID | SW02_SW_202<br>40501<br>SW | SW06_SW_202<br>40501<br>SW | SW25_SW_202<br>40501<br>SW | TB_SW_20240<br>501<br>SW | ---- |
| Client sampling date / time                  |            |            |     |      |                  | 07-May-2024<br>16:30       | 07-May-2024<br>12:00       | 07-May-2024<br>16:10       | 07-May-2024<br>12:00     | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR | Unit | TY2404494-016    | TY2404494-017              | TY2404494-018              | TY2404494-019              | -----                    |      |
|                                              |            |            |     |      | Result           | Result                     | Result                     | Result                     | ----                     |      |
| Aggregate Organics                           |            |            |     |      |                  |                            |                            |                            |                          |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10  | mg/L | 72               | 49                         | 50                         | <10                        | ----                     |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0 | mg/L | <1.0             | <1.0                       | <1.0                       | <1.0                       | ----                     |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## ***Test Report***

SRC Group # 2024-5778

Jun 04, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: May-17-2024

Client P.O.: TY2404494

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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 Snook, Vicky

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

**SRC Group # 2024-5778**

Jun 04, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2024016125**  
Date Sampled: **May 07, 2024**  
Sample Matrix: **WATER**  
Description: **05/07/2024 11:05 SW24\_SW\_20240501 TY2404494-005**

Client PO #: **TY2404494**  
Date Received: **May 17, 2024**

| 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 13.5 °C upon receipt.

**SRC Group # 2024-5778**

Jun 04, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024016126** Client PO #: **TY2404494**  
Date Sampled: **May 07, 2024** Date Received: **May 17, 2024**  
Sample Matrix: **WATER**  
Description: **05/07/2024 13:05 SW20\_SW\_20240501 TY2404494-010**

| Analyte              | Units | Result | DL    |
|----------------------|-------|--------|-------|
| <b>Lab Section 4</b> |       |        |       |
| Radium-226*          | Bq/L  | 0.006  | 0.005 |

The temperature of the cooler was 13.5 °C upon receipt.



SRC Group # 2024-5778

Jun 04, 2024

ALS, Thunder Bay Analytical

Sample #: **2024016127** Client PO #: **TY2404494**  
Date Sampled: **May 07, 2024** Date Received: **May 17, 2024**  
Sample Matrix: **WATER**  
Description: **05/07/2024 13:30 SW22A\_SW\_20240501 TY2404494-011**

| 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 13.5 °C upon receipt.

SRC Group # 2024-5778

Jun 04, 2024

ALS, Thunder Bay Analytical

Sample #: **2024016128** Client PO #: **TY2404494**  
Date Sampled: **May 09, 2024** Date Received: **May 17, 2024**  
Sample Matrix: **WATER**  
Description: **05/09/2024 10:50 SW23\_SW\_20240501 TY2404494-015**

| 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 13.5 °C upon receipt.

SRC Group # 2024-5778

Jun 04, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

Environmental Division  
Thunder Bay

Work Order Reference

**TY2404494**



Telephone : +1 807 623 6483

Project Name: Rainy River

Location: Chapple

Project Number:

Project Manager:

PO Number:

Project:

Turn Around Time (days): 10 Business Days

Shipping Company:

Shipping Date: 5/9/2024 1:45:00 PM

COC Number: ALS-454215729

*TY2404494*

| Sample Code      | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | Containers    | SW Kit     | Re-226 Bottle  |  |  |  |  |  |  |  |  | Number of Containers | Comments |
|------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|------------|----------------|--|--|--|--|--|--|--|--|----------------------|----------|
|                  |                               |                     |                 |                  |        | Filtered      | N          | N              |  |  |  |  |  |  |  |  |                      |          |
|                  |                               |                     |                 |                  |        | Preservatives |            |                |  |  |  |  |  |  |  |  |                      |          |
|                  |                               |                     |                 |                  |        |               | NG-SW-P-TB | RA226-MIMER-BE |  |  |  |  |  |  |  |  |                      |          |
| SW16_SW_20240501 | 10.67                         | 7.24                | 10.76           | 05/07/2024 09:40 | SW     |               | X          |                |  |  |  |  |  |  |  |  | 11                   |          |
| SW17_SW_20240501 | 10.12                         | 7.63                | 10.78           | 05/07/2024 09:40 | SW     |               | X          |                |  |  |  |  |  |  |  |  | 11                   |          |
| SW15_SW_20240501 | 7.54                          | 7.68                | 10.43           | 05/07/2024 11:15 | SW     |               | X          |                |  |  |  |  |  |  |  |  | 11                   |          |
| FB_SW_20240501   |                               |                     |                 | 05/07/2024 12:00 | SW     |               | X          |                |  |  |  |  |  |  |  |  | 11                   |          |
| SW24_SW_20240501 | 8.71                          | 7.51                | 10.48           | 05/07/2024 12:05 | SW     |               | X          |                |  |  |  |  |  |  |  |  | 12                   |          |
| SW24_SW_20240501 | 8.71                          | 7.51                | 10.48           | 05/07/2024 12:05 | SW     |               |            | X              |  |  |  |  |  |  |  |  | 12                   |          |

| Signature                   |  | Data/Time           |  | Shipping Details                 |  | ATTN |      | Special Instructions:                                                                                          |
|-----------------------------|--|---------------------|--|----------------------------------|--|------|------|----------------------------------------------------------------------------------------------------------------|
| Shipped by                  |  | 5/9/2024 1:45:00 PM |  | Method of Shipment: Courier      |  | 7.7  | 7.7  |                                                                                                                |
|                             |  |                     |  | On Ice: yes / no <i>Ice pack</i> |  | 6.7  | 9.1  |                                                                                                                |
| Received by <i>LV</i>       |  | <i>5/10/24 9:08</i> |  | Shipped: Air/Ground              |  | 8.8  | 10.1 | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |
| <i>Manitoulin 9 Coolers</i> |  |                     |  | Lab Name: ALS Thunder Bay        |  | 7.5  | 8.1  |                                                                                                                |
|                             |  |                     |  | Lab Phone:                       |  |      | 10.1 |                                                                                                                |

|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               |                      |                       |   |  |  |  |  |  |  |  |                             |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|------------------------|----------------------|---------------|----------------------|-----------------------|---|--|--|--|--|--|--|--|-----------------------------|-----------------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 5/9/2024 1:45:00 PM<br><b>COC Number:</b> ALS-454215729 |                                      |                            |                        |                      |               | <b>Containers</b>    |                       |   |  |  |  |  |  |  |  | <b>Number of Containers</b> | <b>Comments</b> |
|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               |                      |                       |   |  |  |  |  |  |  |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               | <b>Filtered</b>      | N                     | N |  |  |  |  |  |  |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               | <b>Preservatives</b> |                       |   |  |  |  |  |  |  |  |                             |                 |
| <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> | <b>NG-SW-P-TB</b>    | <b>RA226-MIMER-BE</b> |   |  |  |  |  |  |  |  |                             |                 |
| SW29A_SW_20240501                                                                                                                                                                                                                                                                                                          | 5.05                                 | 7.29                       | 10.24                  | 05/07/2024 12:45     | SW            | X                    |                       |   |  |  |  |  |  |  |  | 11                          |                 |
| SW03_SW_20240501                                                                                                                                                                                                                                                                                                           | 8.71                                 | 7.61                       | 10.81                  | 05/07/2024 13:00     | SW            | X                    |                       |   |  |  |  |  |  |  |  | 11                          |                 |
| SW10_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.85                                | 7.63                       | 10.64                  | 05/07/2024 13:30     | SW            | X                    |                       |   |  |  |  |  |  |  |  | 11                          |                 |
| SW28A_SW_20240501                                                                                                                                                                                                                                                                                                          | 10.54                                | 7.68                       | 12.15                  | 05/07/2024 13:50     | SW            | X                    |                       |   |  |  |  |  |  |  |  | 11                          |                 |
| SW20_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.19                                | 7.49                       | 10.71                  | 05/07/2024 14:05     | SW            | X                    |                       |   |  |  |  |  |  |  |  | 12                          |                 |
| SW20_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.19                                | 7.49                       | 10.71                  | 05/07/2024 14:05     | SW            |                      | X                     |   |  |  |  |  |  |  |  | 12                          |                 |

|                    |                     |                                                                                     |             |                                                                                                                              |
|--------------------|---------------------|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Signature</b>   | <b>Date/Time</b>    | <b>Shipping Details</b>                                                             | <b>ATTN</b> | <b>Special Instructions:</b>                                                                                                 |
| <b>Shipped by</b>  | 5/9/2024 1:45:00 PM | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no                       |             |                                                                                                                              |
| <b>Received by</b> |                     | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |             | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |

|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               |                      |                       |   |  |  |  |  |  |  |    |                             |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|------------------------|----------------------|---------------|----------------------|-----------------------|---|--|--|--|--|--|--|----|-----------------------------|-----------------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 5/9/2024 1:45:00 PM<br><b>COC Number:</b> ALS-454215729 |                                      |                            |                        |                      |               | <b>Containers</b>    |                       |   |  |  |  |  |  |  |    | <b>Number of Containers</b> | <b>Comments</b> |
|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               |                      |                       |   |  |  |  |  |  |  |    |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               | <b>Filtered</b>      | N                     | N |  |  |  |  |  |  |    |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               | <b>Preservatives</b> |                       |   |  |  |  |  |  |  |    |                             |                 |
| <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> | <b>NG-SW-P-TB</b>    | <b>RA226-MIMER-BE</b> |   |  |  |  |  |  |  |    |                             |                 |
| SW22A_SW_20240501                                                                                                                                                                                                                                                                                                          | 10.9                                 | 7.71                       | 11.4                   | 05/07/2024 14:30     | SW            | X                    |                       |   |  |  |  |  |  |  | 12 |                             |                 |
| SW22A_SW_20240501                                                                                                                                                                                                                                                                                                          | 10.9                                 | 7.71                       | 11.4                   | 05/07/2024 14:30     | SW            |                      | X                     |   |  |  |  |  |  |  | 12 |                             |                 |
| SW27_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.1                                 | 7.71                       | 10.93                  | 05/07/2024 15:20     | SW            | X                    |                       |   |  |  |  |  |  |  | 11 |                             |                 |
| SW21A_SW_20240501                                                                                                                                                                                                                                                                                                          | 9.27                                 | 7.6                        | 11.7                   | 05/07/2024 15:35     | SW            | X                    |                       |   |  |  |  |  |  |  | 11 |                             |                 |
| SW26_SW_20240501                                                                                                                                                                                                                                                                                                           | 9.23                                 | 7.96                       | 11.64                  | 05/07/2024 15:50     | SW            | X                    |                       |   |  |  |  |  |  |  | 11 |                             |                 |
| SW23_SW_20240501                                                                                                                                                                                                                                                                                                           | 8.59                                 | 7.49                       | 10.54                  | 05/09/2024 11:50     | SW            | X                    |                       |   |  |  |  |  |  |  | 12 |                             |                 |

|                    |                     |                                                                                     |             |                                                                                                                              |
|--------------------|---------------------|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Signature</b>   | <b>Date/Time</b>    | <b>Shipping Details</b>                                                             | <b>ATTN</b> | <b>Special Instructions:</b>                                                                                                 |
| <b>Shipped by</b>  | 5/9/2024 1:45:00 PM | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no                       |             |                                                                                                                              |
| <b>Received by</b> |                     | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |             | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |

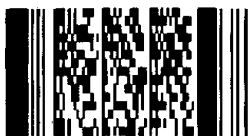
| Signature   | Date/Time           | Shipping Details                                                                    | ATTN | Special Instructions:                                                                                                        |
|-------------|---------------------|-------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------|
| Shipped by  | 5/9/2024 1:45:00 PM | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no                       |      | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |
| Received by |                     | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |      |                                                                                                                              |

# Intake and Login Verification Form

| SAMPLE INTAKE                                                       |                                          |                                     |                                            | ACCOUNT INFO VERIFICATION                                  |              |                                     |  |
|---------------------------------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|------------------------------------------------------------|--------------|-------------------------------------|--|
| Priority/Emergency Service Requested                                | YES                                      | <input checked="" type="radio"/> NO |                                            | Priority/Emergency Service Requested                       | YES          | <input checked="" type="radio"/> NO |  |
| Time Sensitive Hold Time                                            | YES                                      | <input checked="" type="radio"/> NO |                                            | Confirmed all as accurate as per COC, Sample Remarks or PM |              |                                     |  |
| Client:                                                             | New Gold                                 |                                     |                                            | Client                                                     | Work Contact | Quote                               |  |
| SAMPLE RECEIPT INFORMATION                                          |                                          |                                     |                                            | RECEIPT DETAIL                                             |              |                                     |  |
| Mode of Delivery:                                                   | <input checked="" type="radio"/> Courier | Drop Off                            |                                            | Project                                                    | PO           | Site/LSD                            |  |
| Courier                                                             | Manitoulin                               |                                     |                                            | Overall Description Entered                                | Yes          | NA                                  |  |
| Waybill Number                                                      | 330 309 9640                             |                                     |                                            | Received date/time as per COC                              |              |                                     |  |
| Temperature                                                         |                                          |                                     | Cooler Count 9                             | Recipients match CoC or Sample Remarks                     | Yes          | No                                  |  |
| Cooling Method                                                      | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs | Billing Instruction added to remarks                       | Yes          | NA                                  |  |
| SAMPLE MATRIX/BOTTLE INFORMATION                                    |                                          |                                     |                                            | VERIFICATION CHECKLIST                                     |              |                                     |  |
| Matrix:                                                             | <input checked="" type="radio"/> Water   | Soil                                | Air                                        | Biota                                                      | Other        |                                     |  |
| DW Schedule 24 Bottles Correct?                                     |                                          |                                     | Yes                                        | <input checked="" type="radio"/> No                        |              |                                     |  |
| DW Metals pH Check <2                                               |                                          |                                     | Yes                                        | <input checked="" type="radio"/> No                        |              |                                     |  |
| Regulation Circled, Works # present                                 | Yes                                      | No - Reject?                        |                                            | Planned Event Submission                                   | Yes          | No                                  |  |
| # of Bottles:                                                       | 11                                       | Sample Count                        | 15 + 4                                     |                                                            |              |                                     |  |
| Green/white                                                         | 19 Routine, 19 BOD                       |                                     |                                            |                                                            |              |                                     |  |
| Purple/white                                                        | 19 NUTS, 19 TOC, 19 DOC                  |                                     |                                            |                                                            |              |                                     |  |
| Warm red/white                                                      | 19 Tot. Metals, 19 Diss. Metals          |                                     |                                            |                                                            |              |                                     |  |
| Yellow/black                                                        | 19 Tot. Hg, 19 Diss. Hg                  |                                     |                                            |                                                            |              |                                     |  |
| Light blue/white                                                    |                                          |                                     |                                            |                                                            |              |                                     |  |
| Orange/black                                                        |                                          |                                     |                                            |                                                            |              |                                     |  |
| Others (detail)                                                     | 19 Cyanide<br>19x2 OGG<br>4 Radium       |                                     |                                            |                                                            |              |                                     |  |
| Comments on Samples and Bottles:<br>SW02, SW06, SW25, TB not on COC |                                          |                                     |                                            |                                                            |              |                                     |  |
| Samples Requiring Preservation or Filtering:                        |                                          |                                     |                                            |                                                            |              |                                     |  |
| Layout Staff Initials                                               | LV 5/10/24 11:45                         |                                     |                                            |                                                            |              |                                     |  |
| Date and Time of Layout                                             |                                          |                                     |                                            |                                                            |              |                                     |  |
| Validation                                                          |                                          |                                     |                                            | Login Comments:                                            |              |                                     |  |
| Validation errors resolved?                                         |                                          |                                     |                                            | Yes                                                        | No           |                                     |  |
| Internal Sublet CoC created                                         |                                          |                                     |                                            | Yes                                                        | NA           |                                     |  |
| Login Staff Initials:                                               |                                          |                                     |                                            | AP5                                                        |              |                                     |  |



Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2404494**



Telephone : +1 807 623 6463

Project Name: Rainy River

Location: Chapple

Project Number:

Project Manager:

PO Number:

Project:

Turn Around Time (days): 10 Business Days

Shipping Company:

Shipping Date: 5/9/2024 1:45:00 PM

COC Number: ALS-454215729

**TY2404494**

| Sample Code      | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | Containers    | SW Kit     | Ra-226 Bottle |  |  |  |  |  |  |  |  | Number of Containers | Comments |
|------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|------------|---------------|--|--|--|--|--|--|--|--|----------------------|----------|
|                  |                               |                     |                 |                  |        | Filtered      | N          | N             |  |  |  |  |  |  |  |  |                      |          |
|                  |                               |                     |                 |                  |        | Preservatives |            |               |  |  |  |  |  |  |  |  |                      |          |
|                  |                               |                     |                 |                  |        |               | NG-SW-P-TB | RA226-MMER-BE |  |  |  |  |  |  |  |  |                      |          |
| SW16_SW_20240501 | 10.67                         | 7.24                | 10.76           | 05/07/2024 09:40 | SW     |               | X          |               |  |  |  |  |  |  |  |  | 11                   |          |
| SW17_SW_20240501 | 10.12                         | 7.63                | 10.78           | 05/07/2024 09:40 | SW     |               | X          |               |  |  |  |  |  |  |  |  | 11                   |          |
| SW15_SW_20240501 | 7.54                          | 7.68                | 10.43           | 05/07/2024 11:15 | SW     |               | X          |               |  |  |  |  |  |  |  |  | 11                   |          |
| FB_SW_20240501   |                               |                     |                 | 05/07/2024 12:00 | SW     |               | X          |               |  |  |  |  |  |  |  |  | 11                   |          |
| SW24_SW_20240501 | 8.71                          | 7.51                | 10.48           | 05/07/2024 12:05 | SW     |               | X          |               |  |  |  |  |  |  |  |  | 12                   |          |
| SW24_SW_20240501 | 8.71                          | 7.51                | 10.48           | 05/07/2024 12:05 | SW     |               |            | X             |  |  |  |  |  |  |  |  | 12                   |          |

|                       |  |                     |  |                                  |  |          |  |                                                                                                                |  |
|-----------------------|--|---------------------|--|----------------------------------|--|----------|--|----------------------------------------------------------------------------------------------------------------|--|
| Signature             |  | Data/Time           |  | Shipping Details                 |  | ATTN     |  | Special Instructions:                                                                                          |  |
| Shipped by            |  | 5/9/2024 1:45:00 PM |  | Method of Shipment: Courier      |  | 7.7 7.7  |  | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |  |
|                       |  |                     |  | On Ice: yes / no <i>Ice pack</i> |  | 6.7 9.1  |  |                                                                                                                |  |
| Received by <i>LV</i> |  | <i>5/10/24 9:08</i> |  | Shipped: Air/Ground              |  | 8.8 10.1 |  |                                                                                                                |  |
| <i>Manitowish</i>     |  | <i>9 Coolers</i>    |  | Lab Name: ALS Thunder Bay        |  | 7.5 8.1  |  |                                                                                                                |  |
|                       |  |                     |  | Lab Phone:                       |  | 10.1     |  |                                                                                                                |  |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 5/9/2024 1:45:00 PM<br><b>COC Number:</b> ALS-454215729 |                               |                     |                 |                  |        | Containers    |               | SW Kit | Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|--------|---------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | Filtered      |               | N      | N             |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | Preservatives |               |        |               |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        |               |               |        |               |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |        |               |  |  |  |  |  |    |  |                      |          |
| SW29A_SW_20240501                                                                                                                                                                                                                                                                                                          | 5.05                          | 7.29                | 10.24           | 05/07/2024 12:45 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW03_SW_20240501                                                                                                                                                                                                                                                                                                           | 8.71                          | 7.61                | 10.81           | 05/07/2024 13:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW10_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.85                         | 7.63                | 10.64           | 05/07/2024 13:30 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW28A_SW_20240501                                                                                                                                                                                                                                                                                                          | 10.54                         | 7.68                | 12.15           | 05/07/2024 13:50 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW20_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.19                         | 7.49                | 10.71           | 05/07/2024 14:05 | SW     | X             |               |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW20_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.19                         | 7.49                | 10.71           | 05/07/2024 14:05 | SW     |               | X             |        |               |  |  |  |  |  | 12 |  |                      |          |

| Signature   | Date/Time           | Shipping Details            | ATTN | Special Instructions:                                 |
|-------------|---------------------|-----------------------------|------|-------------------------------------------------------|
| Shipped by  | 5/9/2024 1:45:00 PM | Method of Shipment: Courier |      |                                                       |
|             |                     | On Ice: yes / no            |      |                                                       |
| Received by |                     | Shipped: Air/Ground         |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |                     | Lab Name: ALS Thunder Bay   |      | Email Report to:<br>rainyriver.labresults@newgold.com |
|             |                     | Lab Phone:                  |      |                                                       |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 5/9/2024 1:45:00 PM<br><b>COC Number:</b> ALS-454215729 |                               |                     |                 |                  |        | <b>Containers</b><br>SW Kit<br>Ra-226 Bottle |                |  |  |  |  |  |  |  |  | <b>Number of Containers</b> | <b>Comments</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------------------------------|----------------|--|--|--|--|--|--|--|--|-----------------------------|-----------------|
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | <b>Filtered</b><br>N                         | N              |  |  |  |  |  |  |  |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | <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 |  |  |  |  |  |  |  |  |                             |                 |
| SW22A_SW_20240501                                                                                                                                                                                                                                                                                                          | 10.9                          | 7.71                | 11.4            | 05/07/2024 14:30 | SW     | X                                            |                |  |  |  |  |  |  |  |  | 12                          |                 |
| SW22A_SW_20240501                                                                                                                                                                                                                                                                                                          | 10.9                          | 7.71                | 11.4            | 05/07/2024 14:30 | SW     |                                              | X              |  |  |  |  |  |  |  |  | 12                          |                 |
| SW27_SW_20240501                                                                                                                                                                                                                                                                                                           | 10.1                          | 7.71                | 10.93           | 05/07/2024 15:20 | SW     | X                                            |                |  |  |  |  |  |  |  |  | 11                          |                 |
| SW21A_SW_20240501                                                                                                                                                                                                                                                                                                          | 9.27                          | 7.6                 | 11.7            | 05/07/2024 15:35 | SW     | X                                            |                |  |  |  |  |  |  |  |  | 11                          |                 |
| SW26_SW_20240501                                                                                                                                                                                                                                                                                                           | 9.23                          | 7.96                | 11.64           | 05/07/2024 15:50 | SW     | X                                            |                |  |  |  |  |  |  |  |  | 11                          |                 |
| SW23_SW_20240501                                                                                                                                                                                                                                                                                                           | 8.59                          | 7.49                | 10.54           | 05/09/2024 11:50 | SW     | X                                            |                |  |  |  |  |  |  |  |  | 12                          |                 |

| Signature   | Date/Time           | Shipping Details                                               | ATTN | Special Instructions:                                                                                          |
|-------------|---------------------|----------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|
| Shipped by  | 5/9/2024 1:45:00 PM | Method of Shipment: Courier<br>On Ice: yes / no                |      |                                                                                                                |
| Received by |                     | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 5/9/2024 1:45:00 PM<br><b>COC Number:</b> ALS-454215729 |                               |                     |                 |                  |        | <b>Containers</b>    |                | SW Kit | Ra-226 Bottle |  |  |  |  |  |  |    | <b>Number of Containers</b> | <b>Comments</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------|----------------|--------|---------------|--|--|--|--|--|--|----|-----------------------------|-----------------|
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | <b>Filtered</b>      |                | 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-MIMER-BE |        |               |  |  |  |  |  |  |    |                             |                 |
| SW23_SW_20240501                                                                                                                                                                                                                                                                                                           | 8.59                          | 7.49                | 10.54           | 05/09/2024 11:50 | 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

| Signature   | Date/Time           | Shipping Details            | ATTN | Special Instructions:                                                                                                          |
|-------------|---------------------|-----------------------------|------|--------------------------------------------------------------------------------------------------------------------------------|
| Shipped by  | 5/9/2024 1:45:00 PM | Method of Shipment: Courier |      | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com —<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |
|             |                     | On Ice: yes / no            |      |                                                                                                                                |
| Received by |                     | Shipped: Air/Ground         |      |                                                                                                                                |
|             |                     | Lab Name: ALS Thunder Bay   |      |                                                                                                                                |
|             |                     | Lab Phone:                  |      |                                                                                                                                |

|                                                                                                                                                                                                                                                                                                                            |                                      |                            |                        |                      |               |                                                                      |  |                                                                        |  |  |  |  |  |  |  |  |  |                             |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|------------------------|----------------------|---------------|----------------------------------------------------------------------|--|------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------|-----------------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 5/8/2024 5:58:00 PM<br><b>COC Number:</b> ALS-454207488 |                                      |                            |                        |                      |               | <b>Containers</b><br><br><b>Filtered</b><br><br><b>Preservatives</b> |  | <b>SW Kit</b><br><br><b>N</b><br><br><br><br><br><br><b>NG-SW-P-TB</b> |  |  |  |  |  |  |  |  |  | <b>Number of Containers</b> | <b>Comments</b> |
| <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> |                                                                      |  |                                                                        |  |  |  |  |  |  |  |  |  |                             |                 |
| SW06_SW_20240501                                                                                                                                                                                                                                                                                                           | 8.68                                 | 7.94                       | 11.84                  | 05/07/2024 12:00     | SW            | X                                                                    |  |                                                                        |  |  |  |  |  |  |  |  |  |                             |                 |
| TB_SW_20240501                                                                                                                                                                                                                                                                                                             |                                      |                            |                        | 05/07/2024 12:00     | SW            | X                                                                    |  |                                                                        |  |  |  |  |  |  |  |  |  |                             |                 |
| SW25_SW_20240501                                                                                                                                                                                                                                                                                                           | 8.68                                 | 7.94                       | 11.84                  | 05/07/2024 16:10     | SW            | X                                                                    |  |                                                                        |  |  |  |  |  |  |  |  |  |                             |                 |
| SW02_SW_20240501                                                                                                                                                                                                                                                                                                           | 7.66                                 | 7.16                       | 11.82                  | 05/07/2024 16:30     | SW            | X                                                                    |  |                                                                        |  |  |  |  |  |  |  |  |  |                             |                 |

|                                           |                                             |                                                                                                                                                      |             |                                                                                                                              |
|-------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Signature</b><br><br><b>Shipped by</b> | <b>Date/Time</b><br><br>5/8/2024 5:58:00 PM | <b>Shipping Details</b>                                                                                                                              | <b>ATTN</b> | <b>Special Instructions:</b>                                                                                                 |
|                                           |                                             | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no<br><b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |             | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |
| <b>Received by</b>                        |                                             |                                                                                                                                                      |             |                                                                                                                              |

# Intake and Login Verification Form

| SAMPLE INTAKE                                |  |  |                                          |                                     |  | ACCOUNT INFO VERIFICATION                                                        |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
|----------------------------------------------|--|--|------------------------------------------|-------------------------------------|--|----------------------------------------------------------------------------------|------------------------------------------------------------|--|------------------------------------------------------------------|-----|-------------------------------------|--------------------------------------|--|--|----------|--|--|----|--|--|
| Priority/Emergency Service Requested         |  |  | YES                                      | <input checked="" type="radio"/> NO |  |                                                                                  | Priority/Emergency Service Requested                       |  |                                                                  | YES | <input checked="" type="radio"/> NO |                                      |  |  |          |  |  |    |  |  |
| Time Sensitive Hold Time                     |  |  | YES                                      | <input checked="" type="radio"/> NO |  |                                                                                  | Confirmed all as accurate as per COC, Sample Remarks or PM |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Client:                                      |  |  | New Gold                                 |                                     |  | Client                                                                           |                                                            |  | Work Contact                                                     |     |                                     | Quote                                |  |  |          |  |  |    |  |  |
| SAMPLE RECEIPT INFORMATION                   |  |  |                                          |                                     |  | RECEIPT DETAIL                                                                   |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Mode of Delivery:                            |  |  | <input checked="" type="radio"/> Courier |                                     |  | Drop Off                                                                         |                                                            |  | Project                                                          |     |                                     | PO                                   |  |  | Site/LSD |  |  |    |  |  |
| Courier                                      |  |  | Manitoulin                               |                                     |  |                                                                                  |                                                            |  | Overall Description Entered                                      |     |                                     | Yes                                  |  |  | NA       |  |  |    |  |  |
| Waybill Number                               |  |  | 330 309 9640                             |                                     |  |                                                                                  |                                                            |  | Received date/time as per COC                                    |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Temperature                                  |  |  |                                          |                                     |  | Cooler Count 9                                                                   |                                                            |  | Recipients match CoC or Sample Remarks                           |     |                                     | Yes                                  |  |  | No       |  |  |    |  |  |
| Cooling Method                               |  |  | None                                     |                                     |  | Ice                                                                              |                                                            |  | <input checked="" type="radio"/> Ice Packs                       |     |                                     | Billing Instruction added to remarks |  |  | Yes      |  |  | NA |  |  |
| SAMPLE MATRIX/BOTTLE INFORMATION             |  |  |                                          |                                     |  | VERIFICATION CHECKLIST                                                           |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Matrix:                                      |  |  | <input checked="" type="radio"/> Water   |                                     |  | Soil                                                                             |                                                            |  | Air                                                              |     |                                     | Biota                                |  |  | Other    |  |  |    |  |  |
| DW Schedule 24 Bottles Correct?              |  |  | Yes                                      |                                     |  | <input checked="" type="radio"/> No                                              |                                                            |  | Submission Issues communicated                                   |     |                                     | Yes                                  |  |  | NA       |  |  |    |  |  |
| DW Metals pH Check <2                        |  |  | Yes                                      |                                     |  | <input checked="" type="radio"/> No                                              |                                                            |  | Sample Info communicated via Remarks                             |     |                                     | Yes                                  |  |  | NA       |  |  |    |  |  |
| Regulation Circled, Works # present          |  |  | Yes                                      |                                     |  | <input checked="" type="radio"/> No - Reject?                                    |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| # of Bottles: 11                             |  |  | Sample Count                             |                                     |  | 15 + 4                                                                           |                                                            |  | Planned Event Submission                                         |     |                                     | Yes                                  |  |  | No       |  |  |    |  |  |
| Green/white                                  |  |  | 19 Routine, 19 BOD                       |                                     |  |                                                                                  |                                                            |  | Sample Name entered as per CoC                                   |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Purple/white                                 |  |  | 19 NUTs, 19 TOC, 19 DOC                  |                                     |  |                                                                                  |                                                            |  | Sampling Date and time entered as per CoC                        |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Warm red/white                               |  |  | 19 Tot. Metals, 19 Diss. Metals          |                                     |  |                                                                                  |                                                            |  | Containers selected in layout order                              |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Yellow/black                                 |  |  | 19 Tot. Hg, 19 Diss. Hg                  |                                     |  |                                                                                  |                                                            |  | Sales items entered from QUOTE ONLY (and/or verified as correct) |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Light blue/white                             |  |  |                                          |                                     |  |                                                                                  |                                                            |  | Field Data/EC298A removed if not on COC                          |     |                                     | Yes                                  |  |  | NA       |  |  |    |  |  |
| Orange/black                                 |  |  |                                          |                                     |  |                                                                                  |                                                            |  | Bottle Allocation Verified                                       |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Others (detail)                              |  |  | 19 Cyanide                               |                                     |  |                                                                                  |                                                            |  | Guideline added or auto-allocated                                |     |                                     |                                      |  |  |          |  |  |    |  |  |
|                                              |  |  | 19x2 OGG                                 |                                     |  |                                                                                  |                                                            |  | Due dates updated                                                |     |                                     |                                      |  |  |          |  |  |    |  |  |
|                                              |  |  | 4 Radium                                 |                                     |  |                                                                                  |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Comments on Samples and Bottles:             |  |  |                                          |                                     |  | VALIDATION                                                                       |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| SW02, SW06, SW25, TB not on COC              |  |  |                                          |                                     |  | Validation errors resolved?                                                      |                                                            |  | Yes                                                              |     |                                     | No                                   |  |  |          |  |  |    |  |  |
| Samples Requiring Preservation or Filtering: |  |  |                                          |                                     |  | Internal Sublet CoC created                                                      |                                                            |  | Yes                                                              |     |                                     | NA                                   |  |  |          |  |  |    |  |  |
| Layout Staff Initials                        |  |  |                                          |                                     |  | Login Comments:                                                                  |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| Date and Time of Layout                      |  |  |                                          |                                     |  | SW02 - 7 May 16:30<br>SW06 - 7 May 12:00<br>SW25 - 7 May 15:10<br>} from bottles |                                                            |  |                                                                  |     |                                     |                                      |  |  |          |  |  |    |  |  |
| LV 5/10/24 11:45                             |  |  |                                          |                                     |  | Login Staff Initials:                                                            |                                                            |  | APS                                                              |     |                                     |                                      |  |  |          |  |  |    |  |  |

CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2404499                                          | Page                    | : 1 of 4                                              |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Methyl Mercury                                     | Date Samples Received   | : 10-May-2024 09:08                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 10-May-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 07-Jun-2024 14:46                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 10                                                 |                         |                                                       |
| No. of samples analysed | : 10                                                 |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories    | Position            | Laboratory Department             |
|----------------|---------------------|-----------------------------------|
| Aaron Jaurigue | Analyst             | Metals, Burnaby, British Columbia |
| Julie Ruoho    | Teamleader Wet Chem | Inorganics, Thunder Bay, Ontario  |
| Niki Goebel    | Inorganics Analyst  | Metals, Waterloo, Ontario         |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit | Description          |
|------|----------------------|
| -    | no units             |
| µg/L | micrograms per litre |
| mg/L | milligrams per litre |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                     |
|-----------|-------------------------------------------------|
| < W       | No measurable response (zero): < Reported Value |





Analytical Results

|                                              |            |            |          |      |                  |                      |                      |                      |       |      |
|----------------------------------------------|------------|------------|----------|------|------------------|----------------------|----------------------|----------------------|-------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID | Site 4<br>SW         | Site 5<br>SW         | Site 6<br>SW         | ----  | ---- |
| Client sampling date / time                  |            |            |          |      |                  | 07-May-2024<br>14:30 | 07-May-2024<br>13:00 | 07-May-2024<br>12:05 | ----  | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2404499-007    | TY2404499-008        | TY2404499-010        | -----                | ----- |      |
|                                              |            |            |          |      | Result           | Result               | Result               | ----                 | ----  |      |
| Speciated Metals                             |            |            |          |      |                  |                      |                      |                      |       |      |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA    | 0.000020 | µg/L | 0.000123         | 0.000138             | 0.000120             | ----                 | ----  |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

|                                             |            |             |           |      |                  |                             |                             |                             |                      |                      |
|---------------------------------------------|------------|-------------|-----------|------|------------------|-----------------------------|-----------------------------|-----------------------------|----------------------|----------------------|
| Sub-Matrix: Water (MISA)<br>(Matrix: Water) |            |             |           |      | Client sample ID | MRP_EFF_2024<br>0508<br>EFF | SP2_EFF_2024<br>0508<br>EFF | SP1_EFF_2024<br>0508<br>EFF | Site 1<br>EFF        | Site 2<br>EFF        |
| Client sampling date / time                 |            |             |           |      |                  | 08-May-2024<br>09:25        | 08-May-2024<br>10:30        | 08-May-2024<br>11:05        | 07-May-2024<br>14:15 | 07-May-2024<br>14:05 |
| Analyte                                     | CAS Number | Method/Lab  | LOR       | Unit | TY2404499-001    | TY2404499-002               | TY2404499-003               | TY2404499-004               | TY2404499-005        |                      |
|                                             |            |             |           |      | Result           | Result                      | Result                      | Result                      | Result               |                      |
| Anions and Nutrients                        |            |             |           |      |                  |                             |                             |                             |                      |                      |
| Sulfate (as SO4)                            | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | ----             | ----                        | ----                        | 6.89                        | ----                 |                      |
| Total Metals                                |            |             |           |      |                  |                             |                             |                             |                      |                      |
| Mercury, total                              | 7439-97-6  | E508/WT     | 0.0000050 | mg/L | ----             | ----                        | ----                        | <0.000001 <sup>&lt;w</sup>  | ----                 |                      |
| Dissolved Metals                            |            |             |           |      |                  |                             |                             |                             |                      |                      |
| Mercury, dissolved                          | 7439-97-6  | E509/WT     | 0.0000050 | mg/L | ----             | ----                        | ----                        | <0.000001 <sup>&lt;w</sup>  | ----                 |                      |
| Dissolved mercury filtration location       | ----       | EP509/WT    | -         | -    | ----             | ----                        | ----                        | Laboratory                  | ----                 |                      |
| Speciated Metals                            |            |             |           |      |                  |                             |                             |                             |                      |                      |
| Methylmercury (as MeHg), total              | 22967-92-6 | E536/VA     | 0.000020  | µg/L | <0.000020        | 0.000067                    | 0.000077                    | 0.000148                    | 0.000146             |                      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                             |            |            |          |      |                  |                      |                             |       |       |      |
|---------------------------------------------|------------|------------|----------|------|------------------|----------------------|-----------------------------|-------|-------|------|
| Sub-Matrix: Water (MISA)<br>(Matrix: Water) |            |            |          |      | Client sample ID | Site 3<br>EFF        | WMP_EFF_202<br>40508<br>EFF | ----  | ----  | ---- |
| Client sampling date / time                 |            |            |          |      |                  | 07-May-2024<br>13:30 | 08-May-2024<br>12:50        | ----  | ----  | ---- |
| Analyte                                     | CAS Number | Method/Lab | LOR      | Unit | TY2404499-006    | TY2404499-009        | -----                       | ----- | ----- |      |
|                                             |            |            |          |      | Result           | Result               | ----                        | ----  | ----  |      |
| Speciated Metals                            |            |            |          |      |                  |                      |                             |       |       |      |
| Methylmercury (as MeHg), total              | 22967-92-6 | E536/VA    | 0.000020 | µg/L | 0.000140         | 0.000021             | ----                        | ----  | ----  |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Containers

Filtered

Preservatives



Telephone : + 1 807 623 6463

**Drinking Water (DW) Samples**  
(client use)

---

Are samples taken from a Regulated DW  
Are samples for human consumption /  
use?      Yes   X   No

---

Samples from a Regulated DW System  
equals an Approved DW system

Temps: 7.7 7.5 ~~10.1~~ 10.1  
6.7 7.7 8.1  
~~8.8~~ 9.1 10.1

# Intake and Login Verification Form

| SAMPLE INTAKE                                              |                                        |                                          |                                     |                                            |       | ACCOUNT INFO VERIFICATION                                        |              |          |    |
|------------------------------------------------------------|----------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|-------|------------------------------------------------------------------|--------------|----------|----|
| Priority/Emergency Service Requested                       |                                        | YES                                      | <input checked="" type="radio"/> NO |                                            |       | Priority/Emergency Service Requested                             |              | YES      | NO |
| Time Sensitive Hold Time                                   |                                        | YES                                      | <input checked="" type="radio"/> NO |                                            |       | Confirmed all as accurate as per COC, Sample Remarks or PM       |              |          |    |
| Client:                                                    | New Gold                               |                                          |                                     |                                            |       | Client                                                           | Work Contact | Quote    |    |
| SAMPLE RECEIPT INFORMATION                                 |                                        |                                          |                                     |                                            |       | RECEIPT DETAIL                                                   |              |          |    |
| Mode of Delivery:                                          |                                        | <input checked="" type="radio"/> Courier |                                     | Drop Off                                   |       | Project                                                          | PO           | Site/LSD |    |
| Courier                                                    |                                        | Manitoulin                               |                                     |                                            |       | Overall Description Entered                                      |              | Yes      | NA |
| Waybill Number                                             |                                        | 330 309 9640                             |                                     |                                            |       | Received date/time as per COC                                    |              |          |    |
| Temperature                                                |                                        |                                          |                                     | Cooler Count 9                             |       | Recipients match CoC or Sample Remarks                           |              | Yes      | No |
| Cooling Method                                             |                                        | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs |       | Billing Instruction added to remarks                             |              | Yes      | NA |
| SAMPLE MATRIX/BOTTLE INFORMATION                           |                                        |                                          |                                     |                                            |       | VERIFICATION CHECKLIST                                           |              |          |    |
| Matrix:                                                    | <input checked="" type="radio"/> Water | Soil                                     | Air                                 | Biota                                      | Other | Sample Remarks/Specification Doc checked                         |              |          |    |
| DW Schedule 24 Bottles Correct?                            |                                        |                                          |                                     | Yes                                        | No    | Submission Issues communicated                                   |              | Yes      | NA |
| DW Metals pH Check <2                                      |                                        |                                          |                                     | Yes                                        | No    | Sample Info communicated via Remarks                             |              | Yes      | NA |
| Regulation Circled, Works # present                        |                                        | Yes                                      | No - Reject?                        |                                            |       | Planned Event Submission                                         |              | Yes      | No |
| # of Bottles:                                              | 3                                      | Sample Count                             |                                     | 10                                         |       | Sample Name entered as per CoC                                   |              |          |    |
| Green/white                                                | 1 Routine                              |                                          |                                     |                                            |       | Sampling Date and time entered as per CoC                        |              |          |    |
| Purple/white                                               |                                        |                                          |                                     |                                            |       | Containers selected in layout order                              |              |          |    |
| Warm red/white                                             |                                        |                                          |                                     |                                            |       | Sales items entered from QUOTE ONLY (and/or verified as correct) |              |          |    |
| Yellow/black                                               | 1 DASH                                 |                                          |                                     |                                            |       | Field Data/EC298A removed if not on COC                          |              | Yes      | NA |
| Light blue/white                                           | 9                                      |                                          |                                     |                                            |       | Bottle Allocation Verified                                       |              |          |    |
| Orange/black                                               |                                        |                                          |                                     |                                            |       | Guideline added or auto-allocated                                |              |          |    |
| Others (detail)                                            |                                        | 10 Tot. Methyl Hg                        |                                     |                                            |       | Due dates updated                                                |              |          |    |
| Comments on Samples and Bottles:                           |                                        |                                          |                                     |                                            |       | VALIDATION                                                       |              |          |    |
| Received extra sample → ID: Site 62<br>May 7, 2024 12:05pm |                                        |                                          |                                     |                                            |       | Validation errors resolved?                                      |              | Yes      | No |
| Samples Requiring Preservation or Filtering:               |                                        |                                          |                                     |                                            |       | Internal Sublet CoC created                                      |              | Yes      | NA |
| Layout Staff Initials                                      |                                        |                                          |                                     |                                            |       | Login Comments:                                                  |              |          |    |
| Date and Time of Layout                                    |                                        | LV 5/10/24 9:30                          |                                     |                                            |       | Login Staff Initials:                                            |              | ANT      |    |

## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2405838                                          | Page                    | : 1 of 22                                             |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                      | Date Samples Received   | : 07-Jun-2024 11:10                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 07-Jun-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 02-Jul-2024 12:16                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 19                                                 |                         |                                                       |
| No. of samples analysed | : 19                                                 |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

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- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                               | Laboratory Department                            |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics               | Metals, Thunder Bay, Ontario                     |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Manuel TavaraTello   | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Nik Perkio           | Senior Analyst                         | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Senior Analyst                         | Metals, Waterloo, Ontario                        |
| Rhiannon Scheffee    | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario                 |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario                     |
| Taelur Kachur        | Laboratory Analyst                     | Administration, Thunder Bay, Ontario             |
| Walt Kippenhuck      | Supervisor - Inorganic                 | Inorganics, Waterloo, Ontario                    |
| Walt Kippenhuck      | Supervisor - Inorganic                 | Metals, Waterloo, Ontario                        |



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Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
 LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| 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.                          |
| RRV       | Reported result verified by repeat analysis.                                                           |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                          |            |              |        |          | FB_SW_20240604SW  | SW22A_SW_20240604SW     | SW16_SW_20240604SW      | SW02_SW_20240604SW      | SW25_SW_20240604SW      |
|------------------------------------------|------------|--------------|--------|----------|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Client sampling date / time              |            |              |        |          | 04-Jun-2024 00:00 | 04-Jun-2024 09:15       | 04-Jun-2024 09:20       | 04-Jun-2024 09:50       | 04-Jun-2024 10:15       |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2405838-001     | TY2405838-002           | TY2405838-003           | TY2405838-004           | TY2405838-005           |
|                                          |            |              |        |          | Result            | Result                  | Result                  | Result                  | Result                  |
| Field Tests                              |            |              |        |          |                   |                         |                         |                         |                         |
| Oxygen, dissolved, field                 | ---        | EF001/TY     | 0.01   | mg/L     | ---               | 6.51                    | 9.17                    | 5.54                    | 6.2                     |
| pH, field                                | ---        | EF001/TY     | 0.10   | pH units | ---               | 7.41                    | 7.19                    | 6.79                    | 7.41                    |
| Temperature, field                       | ---        | EF001/TY     | 0.10   | °C       | ---               | 18.1                    | 14.6                    | 17.8                    | 18.3                    |
| Physical Tests                           |            |              |        |          |                   |                         |                         |                         |                         |
| Acidity (as CaCO3)                       | ---        | E283/TY      | 2.0    | mg/L     | 2.2               | 2.1                     | 2.3                     | 4.1                     | <2.0                    |
| Colour, true                             | ---        | E329-L/TY    | 2.0    | CU       | <2.0              | 107                     | 48.1                    | 163                     | 94.8                    |
| Conductivity                             | ---        | E100/TY      | 1.0    | µS/cm    | 3.1               | 423                     | 66.7                    | 114                     | 241                     |
| Hardness (as CaCO3), dissolved           | ---        | EC100/TY     | 0.50   | mg/L     | <0.50             | 205                     | 29.2                    | 69.5                    | 127                     |
| pH                                       | ---        | E108/TY      | 0.10   | pH units | 6.41              | 7.93                    | 7.47                    | 7.48                    | 7.92                    |
| Solids, total dissolved [TDS]            | ---        | E162/TY      | 10     | mg/L     | <10               | 297                     | 50                      | 110                     | 162                     |
| Solids, total suspended [TSS]            | ---        | E160/TY      | 3.0    | mg/L     | <3.0              | 7.4                     | 4.6                     | <3.0                    | 3.0                     |
| Turbidity                                | ---        | E121/TY      | 0.10   | NTU      | <0.10             | 4.63                    | 3.77                    | 1.49                    | 5.92                    |
| Alkalinity, total (as CaCO3)             | ---        | E290/TY      | 2.0    | mg/L     | <2.0              | 160                     | 29.6                    | 62.8                    | 110                     |
| Anions and Nutrients                     |            |              |        |          |                   |                         |                         |                         |                         |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | <0.0050           | 0.0285 <sup>&lt;T</sup> | 0.0098 <sup>&lt;T</sup> | 0.0173 <sup>&lt;T</sup> | 0.0239 <sup>&lt;T</sup> |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | ---               | <0.0010                 | <0.0010                 | <0.0010                 | <0.0010                 |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | <0.10             | 7.16                    | 1.88                    | 0.12                    | 8.52                    |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020            | 0.058                   | 0.030                   | 0.030                   | 0.044                   |
| Kjeldahl nitrogen, total [TKN]           | ---        | E318/TY      | 0.050  | mg/L     | <0.050            | 1.58                    | 0.521                   | 0.992                   | 0.721                   |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020            | 2.20                    | 0.025 <sup>&lt;T</sup>  | <0.020                  | <0.020                  |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010            | 0.026 <sup>&lt;T</sup>  | <0.010                  | <0.010                  | <0.010                  |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010           | 0.0160                  | <0.0010                 | <0.0010                 | 0.0032                  |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | <0.30             | 73.5                    | 2.70                    | <0.30                   | 6.97                    |
| Cyanides                                 |            |              |        |          |                   |                         |                         |                         |                         |
| Cyanide, free                            | ---        | E339/WT      | 0.0020 | mg/L     | <0.0020           | <0.0020                 | <0.0020                 | <0.0020                 | <0.0020                 |
| Cyanide, strong acid dissociable (Total) | ---        | E333/WT      | 0.0020 | mg/L     | <0.0020           | <0.0020                 | <0.0020                 | <0.0020                 | <0.0020                 |
| Cyanide, weak acid dissociable           | ---        | E336/WT      | 0.0020 | mg/L     | <0.0020           | <0.0020                 | <0.0020                 | <0.0020                 | <0.0020                 |
| Organic / Inorganic Carbon               |            |              |        |          |                   |                         |                         |                         |                         |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID         | FB_SW_20240604<br>SW       | SW22A_SW_20240604<br>SW   | SW16_SW_20240604<br>SW     | SW02_SW_20240604<br>SW     | SW25_SW_20240604<br>SW |
|----------------------------------------------|------------|------------|-----------|------|--------------------------|----------------------------|---------------------------|----------------------------|----------------------------|------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jun-2024<br>00:00     | 04-Jun-2024<br>09:15       | 04-Jun-2024<br>09:20      | 04-Jun-2024<br>09:50       | 04-Jun-2024<br>10:15       |                        |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2405838-001            | TY2405838-002              | TY2405838-003             | TY2405838-004              | TY2405838-005              |                        |
|                                              |            |            |           |      | Result                   | Result                     | Result                    | Result                     | Result                     |                        |
| Organic / Inorganic Carbon                   |            |            |           |      |                          |                            |                           |                            |                            |                        |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT  | 0.50      | mg/L | <0.50                    | 26.7                       | 15.8                      | 35.1                       | 26.4                       |                        |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | <0.50                    | 24.9                       | 13.4                      | 31.2                       | 21.9                       |                        |
| Total Metals                                 |            |            |           |      |                          |                            |                           |                            |                            |                        |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | <0.0030                  | 0.223                      | 0.147                     | 0.0818                     | 0.195                      |                        |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                 | 0.00050 <sup>&lt;T</sup>   | 0.00011 <sup>&lt;T</sup>  | 0.00010                    | 0.00015 <sup>&lt;T</sup>   |                        |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | <0.00010                 | 0.00163 <sup>&lt;T</sup>   | 0.00050 <sup>&lt;T</sup>  | 0.00095 <sup>&lt;T</sup>   | 0.00124 <sup>&lt;T</sup>   |                        |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.00048                  | 0.0253                     | 0.00904                   | 0.00916                    | 0.0155                     |                        |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                | <0.000020                  | <0.000020                 | <0.000020                  | <0.000020                  |                        |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                | <0.000050                  | <0.000050                 | <0.000050                  | <0.000050                  |                        |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010                   | 0.032 <sup>&lt;T</sup>     | <0.010                    | <0.010                     | 0.013 <sup>&lt;T</sup>     |                        |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050               | 0.0000123 <sup>&lt;T</sup> | <0.0000050                | 0.0000052 <sup>&lt;T</sup> | 0.0000072 <sup>&lt;T</sup> |                        |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 0.115                    | 50.2                       | 7.92                      | 18.0                       | 32.8                       |                        |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010                | 0.000039                   | 0.000021                  | <0.000010                  | 0.000027                   |                        |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050                 | 0.00052 <sup>&lt;T</sup>   | <0.00050                  | <0.00050                   | 0.00055 <sup>&lt;T</sup>   |                        |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010                 | 0.00037 <sup>&lt;T</sup>   | 0.00010                   | 0.00014 <sup>&lt;T</sup>   | 0.00021 <sup>&lt;T</sup>   |                        |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00148 <sup>&lt;T</sup> | 0.00172 <sup>&lt;T</sup>   | 0.00116 <sup>&lt;T</sup>  | 0.00082 <sup>&lt;T</sup>   | 0.00150 <sup>&lt;T</sup>   |                        |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | <0.010                   | 0.557                      | 0.238                     | 0.358                      | 0.440                      |                        |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050                | 0.000179 <sup>&lt;T</sup>  | 0.000137 <sup>&lt;T</sup> | 0.000090 <sup>&lt;T</sup>  | 0.000180 <sup>&lt;T</sup>  |                        |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | <0.0010                  | 0.0105 <sup>&lt;T</sup>    | 0.0012 <sup>&lt;T</sup>   | 0.0018 <sup>&lt;T</sup>    | 0.0036 <sup>&lt;T</sup>    |                        |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 0.0068 <sup>&lt;T</sup>  | 20.5                       | 2.72                      | 6.99                       | 11.4                       |                        |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.00015                  | 0.0844                     | 0.0134                    | 0.0393                     | 0.111                      |                        |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050               | <0.0000050                 | <0.0000050                | <0.0000050                 | <0.0000050                 |                        |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | <0.000050                | 0.00172 <sup>&lt;T</sup>   | 0.000145 <sup>&lt;T</sup> | 0.000147 <sup>&lt;T</sup>  | 0.000517 <sup>&lt;T</sup>  |                        |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | <0.00050                 | 0.00165 <sup>&lt;T</sup>   | 0.00082 <sup>&lt;T</sup>  | 0.00073 <sup>&lt;T</sup>   | 0.00134 <sup>&lt;T</sup>   |                        |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                   | 0.084                      | <0.050                    | <0.050                     | <0.050                     |                        |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | <0.050                   | 2.63                       | 0.776                     | 0.496                      | 1.55                       |                        |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | <0.00020                 | 0.00196                    | 0.00169                   | 0.00123                    | 0.00184                    |                        |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | <0.000050                | 0.000297 <sup>&lt;T</sup>  | 0.000134 <sup>&lt;T</sup> | 0.000165 <sup>&lt;T</sup>  | 0.000192 <sup>&lt;T</sup>  |                        |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 0.14                     | 1.56                       | 2.20                      | 1.99                       | 2.17                       |                        |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | FB_SW_20240604 SW | SW22A_SW_20240604 SW | SW16_SW_20240604 SW | SW02_SW_20240604 SW | SW25_SW_20240604 SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------|-------------------|----------------------|---------------------|---------------------|---------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jun-2024 00:00 | 04-Jun-2024 09:15 | 04-Jun-2024 09:20    | 04-Jun-2024 09:50   | 04-Jun-2024 10:15   |                     |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2405838-001     | TY2405838-002     | TY2405838-003        | TY2405838-004       | TY2405838-005       |                     |
|                                              |            |            |           |      | Result            | Result            | Result               | Result              | Result              |                     |
| Total Metals                                 |            |            |           |      |                   |                   |                      |                     |                     |                     |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010         | <0.000010         | <0.000010            | <0.000010           | <0.000010           |                     |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 0.480             | 13.3              | 2.32                 | 0.961               | 3.51                |                     |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.00034 <T        | 0.204             | 0.0216               | 0.0293              | 0.0666              |                     |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | <0.50             | 28.1              | 1.06                 | <0.50               | 2.99                |                     |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020          | <0.00020          | <0.00020             | <0.00020            | <0.00020            |                     |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010         | <0.000010         | <0.000010            | <0.000010           | <0.000010           |                     |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010          | <0.00010          | <0.00010             | <0.00010            | <0.00010            |                     |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010          | <0.00010          | <0.00010             | <0.00010            | <0.00010            |                     |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | <0.00030          | 0.00548           | 0.00428              | 0.00210             | 0.00672             |                     |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010          | <0.00010          | <0.00010             | <0.00010            | <0.00010            |                     |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | <0.000010         | 0.00132 <T        | 0.000097 <T          | 0.000045 <T         | 0.000612 <T         |                     |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050          | 0.00115           | 0.00070              | <0.00050            | 0.00108             |                     |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030           | 0.0044 <T         | <0.0030              | 0.0030              | 0.0067 <T           |                     |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020          | 0.00033           | 0.00021              | <0.00020            | 0.00034             |                     |
| Dissolved Metals                             |            |            |           |      |                   |                   |                      |                     |                     |                     |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | <0.0010           | 0.0144            | 0.0212               | 0.0301              | 0.0078              |                     |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010          | 0.00048           | <0.00010             | <0.00010            | <0.00010            |                     |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | <0.00010          | 0.00144           | 0.00039              | 0.00086             | 0.00113             |                     |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00054           | 0.0262            | 0.00816              | 0.00892             | 0.0142              |                     |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020         | <0.000020         | <0.000020            | <0.000020           | <0.000020           |                     |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050         | <0.000050         | <0.000050            | <0.000050           | <0.000050           |                     |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010            | 0.029             | <0.010               | <0.010              | 0.012               |                     |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.000251 DLM     | 0.0000050         | <0.0000050           | <0.0000050          | <0.0000050          |                     |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 0.084             | 47.9              | 7.33                 | 16.2                | 31.6                |                     |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010         | 0.000013          | <0.000010            | <0.000010           | <0.000010           |                     |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050          | <0.00050          | <0.00050             | <0.00050            | <0.00050            |                     |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010          | 0.00028           | <0.00010             | 0.00010             | 0.00011             |                     |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00127           | 0.00147           | 0.00088              | 0.00061             | 0.00105             |                     |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | <0.010            | 0.300             | 0.082                | 0.261               | 0.191               |                     |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | FB_SW_202406<br>04<br>SW | SW22A_SW_20<br>240604<br>SW | SW16_SW_202<br>40604<br>SW | SW02_SW_202<br>40604<br>SW | SW25_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|--------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jun-2024<br>00:00 | 04-Jun-2024<br>09:15     | 04-Jun-2024<br>09:20        | 04-Jun-2024<br>09:50       | 04-Jun-2024<br>10:15       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2405838-001        | TY2405838-002            | TY2405838-003               | TY2405838-004              | TY2405838-005              |                            |
|                                              |            |            |           |      | Result               | Result                   | Result                      | Result                     | Result                     |                            |
| Dissolved Metals                             |            |            |           |      |                      |                          |                             |                            |                            |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                | <0.000050                   | <0.000050                  | <0.000050                  |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | <0.0010              | 0.0092                   | <0.0010                     | 0.0014                     | 0.0028                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 0.0063               | 20.8                     | 2.65                        | 7.05                       | 11.6                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00010              | 0.0664                   | 0.00334                     | 0.0289                     | 0.0779                     |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050               | <0.0000050                  | <0.0000050                 | <0.0000050                 |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | <0.000050            | 0.00174                  | 0.000113                    | 0.000134                   | 0.000470                   |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | <0.00050             | 0.00142                  | 0.00065                     | 0.00063                    | 0.00107                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                   | <0.050                      | <0.050                     | <0.050                     |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | <0.050               | 2.56                     | 0.724                       | 0.472                      | 1.62                       |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | <0.00020             | 0.00154                  | 0.00148                     | 0.00116                    | 0.00146                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | <0.000050            | 0.000275                 | 0.000102                    | 0.000132                   | 0.000167                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 0.118                | 1.10                     | 1.84                        | 1.82                       | 1.63                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                | <0.000010                   | <0.000010                  | <0.000010                  |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 0.502                | 12.9                     | 2.20                        | 0.952                      | 3.35                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.00035              | 0.207                    | 0.0217                      | 0.0276                     | 0.0645                     |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | <0.50                | 25.9                     | 1.03                        | <0.50                      | 2.82                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                 | <0.00020                    | <0.00020                   | <0.00020                   |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                | <0.000010                   | <0.000010                  | <0.000010                  |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                 | <0.00010                    | <0.00010                   | <0.00010                   |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                 | <0.00010                    | <0.00010                   | <0.00010                   |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | <0.00030             | 0.00043                  | 0.00047                     | 0.00052                    | 0.00038                    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                 | <0.00010                    | <0.00010                   | <0.00010                   |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | <0.000010            | 0.00117                  | 0.000079                    | 0.000036                   | 0.000519                   |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | 0.00070                  | <0.00050                    | <0.00050                   | 0.00051                    |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0010              | 0.0029                   | 0.0014                      | 0.0033                     | 0.0042                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                 | <0.00030                    | <0.00030                   | <0.00030                   |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                | Field                    | Field                       | Field                      | Field                      |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                | Laboratory               | Laboratory                  | Laboratory                 | Laboratory                 |                            |
| Aggregate Organics                           |            |            |           |      |                      |                          |                             |                            |                            |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                 |            |            |       |      | Client sample ID | FB_SW_20240604 SW | SW22A_SW_20240604 SW | SW16_SW_20240604 SW | SW02_SW_20240604 SW | SW25_SW_20240604 SW |
|---------------------------------|------------|------------|-------|------|------------------|-------------------|----------------------|---------------------|---------------------|---------------------|
| Client sampling date / time     |            |            |       |      |                  | 04-Jun-2024 00:00 | 04-Jun-2024 09:15    | 04-Jun-2024 09:20   | 04-Jun-2024 09:50   | 04-Jun-2024 10:15   |
| Analyte                         | CAS Number | Method/Lab | LOR   | Unit |                  | TY2405838-001     | TY2405838-002        | TY2405838-003       | TY2405838-004       | TY2405838-005       |
|                                 |            |            |       |      |                  | Result            | Result               | Result              | Result              | Result              |
| Aggregate Organics              |            |            |       |      |                  |                   |                      |                     |                     |                     |
| Biochemical oxygen demand [BOD] | ----       | E550/TY    | 2.0   | mg/L |                  | <2.0              | <2.0                 | <2.0                | <2.0                | <2.0                |
| Chemical oxygen demand [COD]    | ----       | E559-L/TY  | 10    | mg/L |                  | <10               | 67                   | 36                  | 91                  | 67                  |
| Oil & grease (gravimetric)      | ----       | E567-L/WT  | 1.0   | mg/L |                  | <1.0              | <1.0                 | <1.0                | <1.0                | <1.0                |
| Radiological Parameters         |            |            |       |      |                  |                   |                      |                     |                     |                     |
| Radium-226                      | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L |                  | ----              | <0.005               | ----                | ----                | ----                |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        | Client sample ID | SW17_SW_202<br>40604<br>SW | SW26_SW_202<br>40604<br>SW | SW15_SW_202<br>40604<br>SW | SW21A_SW_20<br>240604<br>SW | SW27_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|--------------|--------|------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |              |        |                  | 04-Jun-2024<br>10:30       | 04-Jun-2024<br>10:40       | 04-Jun-2024<br>11:10       | 04-Jun-2024<br>11:15        | 04-Jun-2024<br>11:33       |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit             | TY2405838-006              | TY2405838-007              | TY2405838-008              | TY2405838-009               | TY2405838-010              |
|                                              |            |              |        |                  | Result                     | Result                     | Result                     | Result                      | Result                     |
| Field Tests                                  |            |              |        |                  |                            |                            |                            |                             |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L             | 6.72                       | 6.85                       | 4.87                       | 6.86                        | 5.15                       |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units         | 6.90                       | 7.58                       | 7.36                       | 7.49                        | 7.44                       |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C               | 15.9                       | 18.2                       | 17.4                       | 19.2                        | 17.2                       |
| Physical Tests                               |            |              |        |                  |                            |                            |                            |                             |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L             | 2.5                        | <2.0                       | 2.4                        | <2.0                        | <2.0                       |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU               | 73.7                       | 94.1                       | 245                        | 110                         | 90.9                       |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm            | 77.8                       | 270                        | 174                        | 446                         | 303                        |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L             | 36.5                       | 142                        | 101                        | 213                         | 156                        |
| pH                                           | ----       | E108/TY      | 0.10   | pH units         | 7.49                       | 7.98                       | 7.74                       | 7.96                        | 7.94                       |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L             | 69                         | 186                        | 171                        | 303                         | 203                        |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L             | 4.2                        | <3.0                       | 13.4                       | 7.0                         | <3.0                       |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU              | 4.51                       | 5.66                       | 17.2                       | 2.88                        | 5.93                       |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L             | 35.2                       | 128                        | 80.6                       | 154                         | 153                        |
| Anions and Nutrients                         |            |              |        |                  |                            |                            |                            |                             |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L             | 0.0084 <sup>&lt;T</sup>    | 0.0173 <sup>&lt;T</sup>    | 0.0251 <sup>&lt;T</sup>    | 0.0255 <sup>&lt;T</sup>     | 0.0127 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L             | <0.0010                    | <0.0010                    | <0.0010                    | <0.0010                     | <0.0010                    |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L             | 1.81                       | 8.44                       | 1.92                       | 7.01 <sup>RRV</sup>         | 7.46                       |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L             | 0.029                      | 0.049                      | 0.042                      | 0.060 <sup>RRV</sup>        | 0.048                      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L             | 0.627                      | 0.843                      | 1.32                       | 1.33                        | 0.892                      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L             | <0.020                     | <0.020                     | 0.142 <sup>&lt;T</sup>     | 2.53 <sup>RRV</sup>         | <0.020                     |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L             | <0.010                     | <0.010                     | <0.010                     | 0.029 <sup>&lt;T, RRV</sup> | <0.010                     |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L             | 0.0025                     | 0.0021                     | 0.0106                     | 0.0181                      | 0.0060                     |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L             | 2.70                       | 10.4                       | 9.48                       | 83.7 <sup>RRV</sup>         | 11.0                       |
| Cyanides                                     |            |              |        |                  |                            |                            |                            |                             |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L             | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L             | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L             | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Organic / Inorganic Carbon                   |            |              |        |                  |                            |                            |                            |                             |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L             | 20.5                       | 25.5                       | 45.4                       | 29.6                        | 26.8                       |



Analytical Results

Sub-Matrix: Surface Water

Client sample ID

(Matrix: Water)

|                             |            |            |           |      | SW17_SW_202<br>40604<br>SW | SW26_SW_202<br>40604<br>SW | SW15_SW_202<br>40604<br>SW | SW21A_SW_20<br>240604<br>SW | SW27_SW_202<br>40604<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 04-Jun-2024<br>10:30       | 04-Jun-2024<br>10:40       | 04-Jun-2024<br>11:10       | 04-Jun-2024<br>11:15        | 04-Jun-2024<br>11:33       |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2405838-006              | TY2405838-007              | TY2405838-008              | TY2405838-009               | TY2405838-010              |
|                             |            |            |           |      | Result                     | Result                     | Result                     | Result                      | Result                     |
| Organic / Inorganic Carbon  |            |            |           |      |                            |                            |                            |                             |                            |
| Carbon, total organic [TOC] | ----       | E355-L/WT  | 0.50      | mg/L | 17.6                       | 21.7                       | 39.2                       | 25.2                        | 22.7                       |
| Total Metals                |            |            |           |      |                            |                            |                            |                             |                            |
| Aluminum, total             | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.190                      | 0.210                      | 0.644                      | 0.0934                      | 0.212                      |
| Antimony, total             | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00010                    | 0.00016 <sup>&lt;T</sup>   | <0.00020 <sup>DLM</sup>    | 0.00055 <sup>&lt;T</sup>    | 0.00016 <sup>&lt;T</sup>   |
| Arsenic, total              | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00064 <sup>&lt;T</sup>   | 0.00143 <sup>&lt;T</sup>   | 0.00147 <sup>&lt;T</sup>   | 0.00156 <sup>&lt;T</sup>    | 0.00139 <sup>&lt;T</sup>   |
| Barium, total               | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0108                     | 0.0178                     | 0.0189                     | 0.0258                      | 0.0188                     |
| Beryllium, total            | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                  | <0.000020                  | 0.000047 <sup>&lt;T</sup>  | <0.000020                   | <0.000020                  |
| Bismuth, total              | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                  | <0.000100 <sup>DLM</sup>   | <0.000050                   | <0.000050                  |
| Boron, total                | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010                     | 0.014 <sup>&lt;T</sup>     | <0.020 <sup>DLM</sup>      | 0.036 <sup>&lt;T</sup>      | 0.017 <sup>&lt;T</sup>     |
| Cadmium, total              | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000062 <sup>&lt;T</sup> | 0.0000062 <sup>&lt;T</sup> | 0.0000145 <sup>&lt;T</sup> | 0.0000083 <sup>&lt;T</sup>  | 0.0000094 <sup>&lt;T</sup> |
| Calcium, total              | 7440-70-2  | E420/TY    | 0.050     | mg/L | 9.62                       | 35.6                       | 26.5                       | 53.9                        | 41.7                       |
| Cesium, total               | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000023                   | 0.000027                   | 0.000098                   | 0.000034                    | 0.000026                   |
| Chromium, total             | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00058 <sup>&lt;T</sup>   | 0.00130 <sup>&lt;T</sup>   | 0.00137 <sup>&lt;T</sup>   | <0.00050                    | 0.00053 <sup>&lt;T</sup>   |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00014 <sup>&lt;T</sup>   | 0.00021 <sup>&lt;T</sup>   | 0.00052 <sup>&lt;T</sup>   | 0.00037 <sup>&lt;T</sup>    | 0.00025 <sup>&lt;T</sup>   |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00120 <sup>&lt;T</sup>   | 0.00151 <sup>&lt;T</sup>   | 0.00205 <sup>&lt;T</sup>   | 0.00112 <sup>&lt;T</sup>    | 0.00149 <sup>&lt;T</sup>   |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.308                      | 0.481                      | 1.07                       | 0.500                       | 0.474                      |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000145 <sup>&lt;T</sup>  | 0.000169 <sup>&lt;T</sup>  | 0.000493 <sup>&lt;T</sup>  | 0.000087 <sup>&lt;T</sup>   | 0.000140 <sup>&lt;T</sup>  |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0015 <sup>&lt;T</sup>    | 0.0042 <sup>&lt;T</sup>    | 0.0058 <sup>&lt;T</sup>    | 0.0122 <sup>&lt;T</sup>     | 0.0053 <sup>&lt;T</sup>    |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 3.44                       | 12.8                       | 11.2                       | 21.3                        | 14.7                       |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0208                     | 0.0731                     | 0.0588                     | 0.0703                      | 0.138                      |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000133 <sup>&lt;T</sup>  | 0.000620 <sup>&lt;T</sup>  | 0.000412 <sup>&lt;T</sup>  | 0.00189 <sup>&lt;T</sup>    | 0.000663 <sup>&lt;T</sup>  |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00098 <sup>&lt;T</sup>   | 0.00181 <sup>&lt;T</sup>   | 0.00228 <sup>&lt;T</sup>   | 0.00154 <sup>&lt;T</sup>    | 0.00166 <sup>&lt;T</sup>   |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                     | <0.050                     | <0.100 <sup>DLM</sup>      | 0.093                       | <0.050                     |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.823                      | 1.72                       | 1.30                       | 2.75                        | 1.78                       |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00176                    | 0.00197                    | 0.00259                    | 0.00193                     | 0.00180                    |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000121 <sup>&lt;T</sup>  | 0.000160 <sup>&lt;T</sup>  | 0.000187 <sup>&lt;T</sup>  | 0.000320 <sup>&lt;T</sup>   | 0.000204 <sup>&lt;T</sup>  |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.41                       | 2.60                       | 3.26                       | 1.18                        | 3.35                       |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                  | <0.000020 <sup>DLM</sup>   | <0.000010                   | <0.000010                  |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID          | SW17_SW_202<br>40604<br>SW | SW26_SW_202<br>40604<br>SW | SW15_SW_202<br>40604<br>SW | SW21A_SW_20<br>240604<br>SW | SW27_SW_202<br>40604<br>SW |
|-----------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                           | 04-Jun-2024<br>10:30       | 04-Jun-2024<br>10:40       | 04-Jun-2024<br>11:10       | 04-Jun-2024<br>11:15        | 04-Jun-2024<br>11:33       |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2405838-006             | TY2405838-007              | TY2405838-008              | TY2405838-009              | TY2405838-009               | TY2405838-010              |
|                             |            |            |           |      | Result                    | Result                     | Result                     | Result                     | Result                      | Result                     |
| Total Metals                |            |            |           |      |                           |                            |                            |                            |                             |                            |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 2.23                      | 3.72                       | 3.40                       | 14.3                       | 4.26                        |                            |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0235                    | 0.0783                     | 0.0643                     | 0.220                      | 0.0863                      |                            |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.24                      | 4.35                       | 4.45                       | 31.3                       | 4.66                        |                            |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00040 <sup>DLM</sup>    | <0.00020                   | <0.00020                    |                            |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000020 <sup>DLM</sup>   | <0.000010                  | <0.000010                   |                            |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                    |                            |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                    |                            |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00584                   | 0.00741                    | 0.0216                     | 0.00308                    | 0.00817                     |                            |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                    |                            |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000113 <sup>&lt;T</sup> | 0.000634 <sup>&lt;T</sup>  | 0.000593 <sup>&lt;T</sup>  | 0.00135 <sup>&lt;T</sup>   | 0.000842 <sup>&lt;T</sup>   |                            |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00097                   | 0.00114                    | 0.00272                    | 0.00105                    | 0.00125                     |                            |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | 0.0087 <sup>&lt;T</sup>    | <0.0060 <sup>DLM</sup>     | <0.0030                    | 0.0061 <sup>&lt;T</sup>     |                            |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00025                   | 0.00035                    | 0.00074                    | 0.00026                    | 0.00041                     |                            |
| Dissolved Metals            |            |            |           |      |                           |                            |                            |                            |                             |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0295                    | 0.0089                     | 0.0658                     | 0.0071                     | 0.0095                      |                            |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | 0.00013                    | 0.00050                    | <0.00010                    |                            |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00057                   | 0.00126                    | 0.00121                    | 0.00138                    | 0.00128                     |                            |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00995                   | 0.0163                     | 0.0144                     | 0.0258                     | 0.0180                      |                            |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                  | <0.000020                   |                            |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                   |                            |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | 0.012                      | 0.013                      | 0.030                      | 0.014                       |                            |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000050                 | <0.0000050                 | 0.0000081                  | <0.0000050                 | 0.0000051                   |                            |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 8.94                      | 34.9                       | 23.1                       | 49.8                       | 38.2                        |                            |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | 0.000022                   | <0.000010                   |                            |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                   | <0.00050                    |                            |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                  | 0.00012                    | 0.00017                    | 0.00030                    | 0.00018                     |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00094                   | 0.00125                    | 0.00119                    | 0.00095                    | 0.00120                     |                            |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.111                     | 0.205                      | 0.333                      | 0.312                      | 0.201                       |                            |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | 0.000128                   | <0.000050                  | <0.000050                   |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW17_SW_202<br>40604<br>SW | SW26_SW_202<br>40604<br>SW | SW15_SW_202<br>40604<br>SW | SW21A_SW_20<br>240604<br>SW | SW27_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jun-2024<br>10:30 | 04-Jun-2024<br>10:40       | 04-Jun-2024<br>11:10       | 04-Jun-2024<br>11:15       | 04-Jun-2024<br>11:33        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2405838-006        | TY2405838-007              | TY2405838-008              | TY2405838-009              | TY2405838-010               |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                     | Result                      |                            |
| Dissolved Metals                             |            |            |           |      |                      |                            |                            |                            |                             |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0010               | 0.0030                     | 0.0037                     | 0.0095                     | 0.0038                      |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 3.44                 | 13.2                       | 10.5                       | 21.6                       | 14.8                        |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00876              | 0.0524                     | 0.0371                     | 0.0515                     | 0.110                       |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                  |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000123             | 0.000563                   | 0.000364                   | 0.00184                    | 0.000629                    |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00074              | 0.00122                    | 0.00144                    | 0.00140                    | 0.00148                     |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                     | 0.060                      | <0.050                      |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.739                | 1.62                       | 1.05                       | 2.69                       | 1.67                        |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00138              | 0.00156                    | 0.00107                    | 0.00170                    | 0.00138                     |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000136             | 0.000188                   | 0.000183                   | 0.000317                   | 0.000191                    |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.88                 | 2.00                       | 1.80                       | 0.945                      | 2.69                        |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 2.31                 | 3.82                       | 3.16                       | 14.4                       | 4.25                        |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0250               | 0.0816                     | 0.0576                     | 0.222                      | 0.0899                      |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 1.14                 | 3.92                       | 3.76                       | 30.6                       | 4.43                        |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                    |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00053              | 0.00056                    | 0.00145                    | 0.00040                    | 0.00052                     |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000092             | 0.000575                   | 0.000464                   | 0.00124                    | 0.000769                    |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050             | 0.00056                    | 0.00098                    | 0.00065                    | 0.00061                     |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0010              | 0.0069                     | 0.0015                     | 0.0010                     | 0.0041                      |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030             | <0.00030                   | 0.00038                    | <0.00030                   | <0.00030                    |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                | Field                      | Field                      | Field                      | Field                       |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                 | Laboratory                 | Laboratory                 | Laboratory                  |                            |
| Aggregate Organics                           |            |            |           |      |                      |                            |                            |                            |                             |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                 | <2.0                       | <2.0                       | <2.0                       | <2.0                        |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                              |            |            |     |      | Client sample ID            | SW17_SW_202<br>40604<br>SW | SW26_SW_202<br>40604<br>SW | SW15_SW_202<br>40604<br>SW | SW21A_SW_20<br>240604<br>SW | SW27_SW_202<br>40604<br>SW |
|------------------------------|------------|------------|-----|------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
|                              |            |            |     |      | Client sampling date / time | 04-Jun-2024<br>10:30       | 04-Jun-2024<br>10:40       | 04-Jun-2024<br>11:10       | 04-Jun-2024<br>11:15        | 04-Jun-2024<br>11:33       |
| Analyte                      | CAS Number | Method/Lab | LOR | Unit |                             | TY2405838-006              | TY2405838-007              | TY2405838-008              | TY2405838-009               | TY2405838-010              |
|                              |            |            |     |      |                             | Result                     | Result                     | Result                     | Result                      | Result                     |
| Aggregate Organics           |            |            |     |      |                             |                            |                            |                            |                             |                            |
| Chemical oxygen demand [COD] | ----       | E559-L/TY  | 10  | mg/L |                             | 59                         | 63                         | 105                        | 71                          | 60                         |
| Oil & grease (gravimetric)   | ----       | E567-L/WT  | 1.0 | mg/L |                             | <1.0                       | <1.0                       | <1.0                       | ----                        | <1.0                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.





Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW23_SW_202<br>40604<br>SW | SW06_SW_202<br>40604<br>SW | TB_SW_20240<br>604<br>SW | SW24_SW_202<br>40604<br>SW | SW10_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |              |        |          | 04-Jun-2024<br>11:50    | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:05     | 04-Jun-2024<br>12:30       |                            |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2405838-011           | TY2405838-012              | TY2405838-013              | TY2405838-014            | TY2405838-015              |                            |
|                                              |            |              |        |          | Result                  | Result                     | Result                     | Result                   | Result                     |                            |
| Field Tests                                  |            |              |        |          |                         |                            |                            |                          |                            |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 5.73                    | 6.85                       | ----                       | 5.83                     | 7.19                       |                            |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.30                    | 7.58                       | ----                       | 7.35                     | 7.50                       |                            |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 18.0                    | 18.2                       | ----                       | 18.0                     | 20.0                       |                            |
| Physical Tests                               |            |              |        |          |                         |                            |                            |                          |                            |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 2.3                     | <2.0                       | 2.1                        | 3.4                      | <2.0                       |                            |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 206                     | 92.8                       | <2.0                       | 214                      | 202                        |                            |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 236                     | 270                        | <1.0                       | 233                      | 196                        |                            |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 127                     | 145                        | <0.50                      | 130                      | 104                        |                            |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.75                    | 8.01                       | 5.56                       | 7.74                     | 7.93                       |                            |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 198                     | 199                        | <10                        | 208                      | 174                        |                            |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 11.8                    | 3.4                        | <3.0                       | 11.2                     | 11.0                       |                            |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 9.66                    | 5.89                       | <0.10                      | 11.6                     | 10.1                       |                            |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 97.9                    | 132                        | <2.0                       | 94.9                     | 91.1                       |                            |
| Anions and Nutrients                         |            |              |        |          |                         |                            |                            |                          |                            |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0382 <sup>&lt;T</sup> | 0.0170 <sup>&lt;T</sup>    | <0.0050                    | 0.0397 <sup>&lt;T</sup>  | 0.0201 <sup>&lt;T</sup>    |                            |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                    | ----                       | <0.0010                  | <0.0010                    |                            |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 2.97                    | 8.41                       | <0.10                      | 2.95                     | 6.95                       |                            |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.046                   | 0.045                      | <0.020                     | 0.047                    | 0.044                      |                            |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 1.31                    | 0.788                      | <0.050                     | 1.24                     | 0.738                      |                            |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.516                   | <0.020                     | <0.020                     | 0.524                    | <0.020                     |                            |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | 0.011 <sup>&lt;T</sup>  | <0.010                     | <0.010                     | 0.011 <sup>&lt;T</sup>   | <0.010                     |                            |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0225                  | 0.0020                     | <0.0010                    | 0.0210                   | 0.0171                     |                            |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 21.4                    | 10.4                       | <0.30                      | 21.2                     | 1.41                       |                            |
| Cyanides                                     |            |              |        |          |                         |                            |                            |                          |                            |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |                            |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |                            |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |                            |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                            |                            |                          |                            |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 42.8                    | 24.5                       | <0.50                      | 43.0                     | 42.8                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID           | SW23_SW_202<br>40604<br>SW | SW06_SW_202<br>40604<br>SW | TB_SW_20240<br>604<br>SW   | SW24_SW_202<br>40604<br>SW | SW10_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jun-2024<br>11:50       | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:05       | 04-Jun-2024<br>12:30       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2405838-011              | TY2405838-012              | TY2405838-013              | TY2405838-014              | TY2405838-015              |                            |
|                                              |            |            |           |      | Result                     | Result                     | Result                     | Result                     | Result                     |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                            |                            |                            |                            |                            |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 37.3                       | 22.1                       | <0.50                      | 36.9                       | 35.5                       |                            |
| Total Metals                                 |            |            |           |      |                            |                            |                            |                            |                            |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.450                      | 0.212                      | 0.0121 <sup>&lt;T</sup>    | 0.484                      | 0.382                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00024 <sup>&lt;T</sup>   | 0.00015 <sup>&lt;T</sup>   | <0.00010                   | 0.00024 <sup>&lt;T</sup>   | 0.00011 <sup>&lt;T</sup>   |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00152 <sup>&lt;T</sup>   | 0.00142 <sup>&lt;T</sup>   | <0.00010                   | 0.00154 <sup>&lt;T</sup>   | 0.00142 <sup>&lt;T</sup>   |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0208                     | 0.0177                     | 0.00086                    | 0.0202                     | 0.0171                     |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | 0.000037 <sup>&lt;T</sup>  | <0.000020                  | <0.000020                  | 0.000034 <sup>&lt;T</sup>  | 0.000035 <sup>&lt;T</sup>  |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                  |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.020 <sup>&lt;T</sup>     | 0.015 <sup>&lt;T</sup>     | <0.010                     | 0.020 <sup>&lt;T</sup>     | 0.018 <sup>&lt;T</sup>     |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000156 <sup>&lt;T</sup> | 0.0000073 <sup>&lt;T</sup> | <0.0000050                 | 0.0000168 <sup>&lt;T</sup> | 0.0000105 <sup>&lt;T</sup> |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 31.5                       | 36.5                       | 0.132                      | 30.8                       | 25.1                       |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000060                   | 0.000026                   | <0.000010                  | 0.000066                   | 0.000049                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00105 <sup>&lt;T</sup>   | 0.00056 <sup>&lt;T</sup>   | <0.00050                   | 0.00110 <sup>&lt;T</sup>   | 0.00098 <sup>&lt;T</sup>   |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00048 <sup>&lt;T</sup>   | 0.00021 <sup>&lt;T</sup>   | <0.00010                   | 0.00053 <sup>&lt;T</sup>   | 0.00034 <sup>&lt;T</sup>   |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00167 <sup>&lt;T</sup>   | 0.00155 <sup>&lt;T</sup>   | <0.00050                   | 0.00176 <sup>&lt;T</sup>   | 0.00132 <sup>&lt;T</sup>   |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.906                      | 0.470                      | <0.010                     | 0.958                      | 0.733                      |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000321 <sup>&lt;T</sup>  | 0.000166 <sup>&lt;T</sup>  | <0.000050                  | 0.000350 <sup>&lt;T</sup>  | 0.000246 <sup>&lt;T</sup>  |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0063 <sup>&lt;T</sup>    | 0.0043 <sup>&lt;T</sup>    | <0.0010                    | 0.0063 <sup>&lt;T</sup>    | 0.0051 <sup>&lt;T</sup>    |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 12.7                       | 13.1                       | 0.0169 <sup>&lt;T</sup>    | 12.7                       | 10.5                       |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.104                      | 0.0747                     | 0.00010                    | 0.106                      | 0.0340                     |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                 |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000687 <sup>&lt;T</sup>  | 0.000682 <sup>&lt;T</sup>  | <0.000050                  | 0.000718 <sup>&lt;T</sup>  | 0.000431 <sup>&lt;T</sup>  |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00208 <sup>&lt;T</sup>   | 0.00145 <sup>&lt;T</sup>   | <0.00050                   | 0.00214 <sup>&lt;T</sup>   | 0.00200 <sup>&lt;T</sup>   |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | 0.058                      | <0.050                     | <0.050                     | 0.065                      | 0.058                      |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.41                       | 1.75 <sup>DTC</sup>        | <0.050                     | 1.45                       | 0.958                      |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00243                    | 0.00180                    | <0.00020                   | 0.00245                    | 0.00199                    |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000248 <sup>&lt;T</sup>  | 0.000176 <sup>&lt;T</sup>  | <0.000050                  | 0.000237 <sup>&lt;T</sup>  | 0.000233 <sup>&lt;T</sup>  |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.49                       | 2.58                       | <0.10                      | 2.62                       | 2.45                       |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW23_SW_202<br>40604<br>SW | SW06_SW_202<br>40604<br>SW | TB_SW_20240<br>604<br>SW  | SW24_SW_202<br>40604<br>SW | SW10_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|---------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jun-2024<br>11:50      | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:05      | 04-Jun-2024<br>12:30       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2405838-011             | TY2405838-012              | TY2405838-013              | TY2405838-014             | TY2405838-015              |                            |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                    | Result                     |                            |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                           |                            |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 5.13                      | 3.78                       | 0.145                      | 5.33                      | 5.17                       |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0908                    | 0.0803                     | 0.00038 <sup>&lt;T</sup>   | 0.0914                    | 0.0658                     |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 8.41                      | 4.30                       | <0.50                      | 8.51                      | 1.18                       |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                  | <0.00020                   |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                 | <0.000010                  |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.0151                    | 0.00731                    | <0.00030                   | 0.0158                    | 0.0113                     |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000570 <sup>&lt;T</sup> | 0.000639 <sup>&lt;T</sup>  | <0.000010                  | 0.000561 <sup>&lt;T</sup> | 0.000431 <sup>&lt;T</sup>  |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00219                   | 0.00116                    | <0.00050                   | 0.00217                   | 0.00195                    |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0033 <sup>&lt;T</sup>   | 0.0088 <sup>&lt;T</sup>    | <0.0030                    | 0.0034 <sup>&lt;T</sup>   | 0.0031 <sup>&lt;T</sup>    |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00062                   | 0.00035                    | <0.00020                   | 0.00066                   | 0.00075                    |                            |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                           |                            |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0686                    | 0.0252                     | 0.0092 <sup>RRV</sup>      | 0.0668                    | 0.0317                     |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | 0.00019                   | <0.00010                   | <0.00010                   | 0.00019                   | <0.00010                   |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00131                   | 0.00128                    | <0.00010                   | 0.00134                   | 0.00124                    |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0205                    | 0.0188                     | 0.00065 <sup>RRV</sup>     | 0.0201                    | 0.0155                     |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                 | 0.000020                   |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                 | <0.000050                  |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.017                     | 0.012                      | <0.010                     | 0.017                     | 0.015                      |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000101                 | 0.0000051                  | <0.0000050                 | 0.0000101                 | 0.0000061                  |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 30.2                      | 36.0                       | 0.097 <sup>RRV</sup>       | 31.7                      | 24.0                       |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                 | <0.000010                  |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                  | <0.00050                   |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00026                   | 0.00013                    | <0.00010                   | 0.00027                   | 0.00018                    |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00122                   | 0.00118                    | <0.00020                   | 0.00119                   | 0.00100                    |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.397                     | 0.204                      | <0.010                     | 0.407                     | 0.339                      |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000108                  | <0.000050                  | <0.000050                  | 0.000120                  | 0.000093                   |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW23_SW_202<br>40604<br>SW | SW06_SW_202<br>40604<br>SW | TB_SW_20240<br>604<br>SW | SW24_SW_202<br>40604<br>SW | SW10_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 04-Jun-2024<br>11:50 | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:05     | 04-Jun-2024<br>12:30       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2405838-011        | TY2405838-012              | TY2405838-013              | TY2405838-014            | TY2405838-015              |                            |
|                                              |            |            |           |      | Result               | Result                     | Result                     | Result                   | Result                     |                            |
| Dissolved Metals                             |            |            |           |      |                      |                            |                            |                          |                            |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0048               | 0.0034                     | <0.0010                    | 0.0046                   | 0.0034                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 12.6                 | 13.4                       | 0.0125 <sup>RRV</sup>      | 12.4                     | 10.7                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0827               | 0.0524                     | <0.00010                   | 0.0836                   | 0.0238                     |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050               | <0.0000050                 |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000665             | 0.000561                   | <0.000050                  | 0.000610                 | 0.000369                   |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00154              | 0.00123                    | <0.00050                   | 0.00151                  | 0.00164                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.050                     | <0.050                     | <0.050                   | <0.050                     |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.29                 | 2.83                       | <0.050                     | 1.28                     | 0.876                      |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00124              | 0.00161                    | <0.00020                   | 0.00139                  | 0.00105                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000209             | 0.000149                   | <0.000050                  | 0.000241                 | 0.000213                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.50                 | 2.00                       | <0.050                     | 1.52                     | 1.55                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                | <0.000010                  |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 5.39                 | 3.86                       | 0.192 <sup>RRV</sup>       | 5.20                     | 5.24                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0904               | 0.0805                     | 0.00028 <sup>RRV</sup>     | 0.0916                   | 0.0665                     |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 8.19                 | 4.41                       | <0.50                      | 8.08                     | 0.97                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00020                   | <0.00020                   | <0.00020                 | <0.00020                   |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                  | <0.000010                  | <0.000010                | <0.000010                  |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                 | <0.00010                   |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                 | <0.00010                   |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00112              | 0.00049                    | <0.00030                   | 0.00120                  | 0.00100                    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                   | <0.00010                   | <0.00010                 | <0.00010                   |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000494             | 0.000563                   | <0.000010                  | 0.000508                 | 0.000376                   |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | 0.00093              | 0.00056                    | <0.00050                   | 0.00095                  | 0.00102                    |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0019               | 0.0063                     | <0.0010                    | 0.0014                   | 0.0017                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | 0.00036              | <0.00030                   | <0.00030                   | 0.00037                  | 0.00043                    |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                | Field                      | Field                      | Field                    | Field                      |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Laboratory           | Laboratory                 | Field                      | Laboratory               | Laboratory                 |                            |
| Aggregate Organics                           |            |            |           |      |                      |                            |                            |                          |                            |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                 | <2.0                       | <2.0                       | <2.0                     | <2.0                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID     | SW23_SW_202<br>40604<br>SW | SW06_SW_202<br>40604<br>SW | TB_SW_20240<br>604<br>SW | SW24_SW_202<br>40604<br>SW | SW10_SW_202<br>40604<br>SW |
|----------------------------------------------|------------|------------|-------|------|----------------------|----------------------------|----------------------------|--------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |       |      | 04-Jun-2024<br>11:50 | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:00       | 04-Jun-2024<br>12:05     | 04-Jun-2024<br>12:30       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2405838-011        | TY2405838-012              | TY2405838-013              | TY2405838-014            | TY2405838-015              |                            |
|                                              |            |            |       |      | Result               | Result                     | Result                     | Result                   | Result                     |                            |
| Aggregate Organics                           |            |            |       |      |                      |                            |                            |                          |                            |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 101                  | 60                         | <10                        | 103                      | 96                         |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | ----                 | <1.0                       | <1.0                       | <1.0                     | <1.0                       |                            |
| Radiological Parameters                      |            |            |       |      |                      |                            |                            |                          |                            |                            |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | <0.005               | ----                       | ----                       | <0.005                   | ----                       |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                              |            |              |        |          |                         |                             |                             |                            |                            |      |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW29A_SW_20<br>240604<br>SW | SW28A_SW_20<br>240604<br>SW | SW20_SW_202<br>40604<br>SW | SW03_SW_202<br>40604<br>SW | ---- |
| Client sampling date / time                  |            |              |        |          |                         | 04-Jun-2024<br>12:35        | 04-Jun-2024<br>12:45        | 04-Jun-2024<br>13:00       | 04-Jun-2024<br>13:05       | ---- |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2405838-016           | TY2405838-017               | TY2405838-018               | TY2405838-019              | -----                      |      |
|                                              |            |              |        |          | Result                  | Result                      | Result                      | Result                     | ----                       |      |
| Field Tests                                  |            |              |        |          |                         |                             |                             |                            |                            |      |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 0.38                    | 7.39                        | 5.31                        | 5.95                       | ----                       |      |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 6.91                    | 7.49                        | 7.22                        | 7.50                       | ----                       |      |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 17.0                    | 21.5                        | 19.4                        | 19.0                       | ----                       |      |
| Physical Tests                               |            |              |        |          |                         |                             |                             |                            |                            |      |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 3.8                     | 2.7                         | 2.3                         | 2.0                        | ----                       |      |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 116                     | 156                         | 154                         | 148                        | ----                       |      |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 189                     | 146                         | 228                         | 340                        | ----                       |      |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 107                     | 86.8                        | 114                         | 172                        | ----                       |      |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.68                    | 7.81                        | 7.75                        | 7.92                       | ----                       |      |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 166                     | 144                         | 184                         | 264                        | ----                       |      |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | <3.0                    | 6.6                         | 3.2                         | 10.1                       | ----                       |      |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 1.25                    | 5.41                        | 2.39                        | 6.00                       | ----                       |      |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 100                     | 76.1                        | 100                         | 122                        | ----                       |      |
| Anions and Nutrients                         |            |              |        |          |                         |                             |                             |                            |                            |      |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0217 <sup>&lt;T</sup> | 0.0175 <sup>&lt;T</sup>     | 0.0200 <sup>&lt;T</sup>     | 0.0377 <sup>&lt;T</sup>    | ----                       |      |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                     | <0.0010                     | <0.0010                    | ----                       |      |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 0.74                    | 0.85                        | 12.8                        | 5.70                       | ----                       |      |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.041                   | 0.029                       | 0.038                       | 0.052                      | ----                       |      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.875                   | 0.960                       | 0.720                       | 0.736                      | ----                       |      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                  | <0.020                      | <0.020                      | 1.09                       | ----                       |      |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                  | <0.010                      | <0.010                      | 0.022 <sup>&lt;T</sup>     | ----                       |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0093                  | <0.0010                     | 0.0136                      | 0.0189                     | ----                       |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 0.79                    | 0.70                        | 1.17                        | 46.6                       | ----                       |      |
| Cyanides                                     |            |              |        |          |                         |                             |                             |                            |                            |      |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                     | <0.0020                    | ----                       |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                     | <0.0020                    | ----                       |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                     | <0.0020                    | ----                       |      |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                             |                             |                            |                            |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 32.1                    | 37.5                        | 36.1                        | 37.5                       | ----                       |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID          | SW29A_SW_20<br>240604<br>SW | SW28A_SW_20<br>240604<br>SW | SW20_SW_202<br>40604<br>SW | SW03_SW_202<br>40604<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time |            |            |           |      |                           | 04-Jun-2024<br>12:35        | 04-Jun-2024<br>12:45        | 04-Jun-2024<br>13:00       | 04-Jun-2024<br>13:05       | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2405838-016             | TY2405838-017               | TY2405838-018               | TY2405838-019              | -----                      |      |
|                             |            |            |           |      | Result                    | Result                      | Result                      | Result                     | ----                       |      |
| Organic / Inorganic Carbon  |            |            |           |      |                           |                             |                             |                            |                            |      |
| Carbon, total organic [TOC] | ----       | E355-L/WT  | 0.50      | mg/L | 27.8                      | 32.9                        | 31.5                        | 31.8                       | ----                       |      |
| Total Metals                |            |            |           |      |                           |                             |                             |                            |                            |      |
| Aluminum, total             | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0246 <sup>&lt;T</sup>   | 0.254                       | 0.108                       | 0.245                      | ----                       |      |
| Antimony, total             | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00011 <sup>&lt;T</sup>  | 0.00011 <sup>&lt;T</sup>    | 0.00011 <sup>&lt;T</sup>    | 0.00036 <sup>&lt;T</sup>   | ----                       |      |
| Arsenic, total              | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00108 <sup>&lt;T</sup>  | 0.00111 <sup>&lt;T</sup>    | 0.00127 <sup>&lt;T</sup>    | 0.00148 <sup>&lt;T</sup>   | ----                       |      |
| Barium, total               | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0140                    | 0.0120                      | 0.0167                      | 0.0223                     | ----                       |      |
| Beryllium, total            | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                 | 0.000024 <sup>&lt;T</sup>   | <0.000020                   | 0.000022 <sup>&lt;T</sup>  | ----                       |      |
| Bismuth, total              | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                   | <0.000050                  | ----                       |      |
| Boron, total                | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.014 <sup>&lt;T</sup>    | 0.012 <sup>&lt;T</sup>      | 0.016 <sup>&lt;T</sup>      | 0.026 <sup>&lt;T</sup>     | ----                       |      |
| Cadmium, total              | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000115 <sup>&lt;T</sup>  | 0.0000052 <sup>&lt;T</sup>  | 0.0000115 <sup>&lt;T</sup> | ----                       |      |
| Calcium, total              | 7440-70-2  | E420/TY    | 0.050     | mg/L | 26.6                      | 20.3                        | 26.8                        | 41.9                       | ----                       |      |
| Cesium, total               | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010                 | 0.000036                    | <0.000010                   | 0.000037                   | ----                       |      |
| Chromium, total             | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00065 <sup>&lt;T</sup>    | 0.00052 <sup>&lt;T</sup>    | 0.00061 <sup>&lt;T</sup>   | ----                       |      |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00033 <sup>&lt;T</sup>  | 0.00029 <sup>&lt;T</sup>    | 0.00029 <sup>&lt;T</sup>    | 0.00037 <sup>&lt;T</sup>   | ----                       |      |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00052 <sup>&lt;T</sup>  | 0.00101 <sup>&lt;T</sup>    | 0.00090 <sup>&lt;T</sup>    | 0.00239 <sup>&lt;T</sup>   | ----                       |      |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.382                     | 0.509                       | 0.541                       | 0.590                      | ----                       |      |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050                 | 0.000174 <sup>&lt;T</sup>   | 0.000086 <sup>&lt;T</sup>   | 0.000182 <sup>&lt;T</sup>  | ----                       |      |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0036 <sup>&lt;T</sup>   | 0.0032 <sup>&lt;T</sup>     | 0.0044 <sup>&lt;T</sup>     | 0.0086 <sup>&lt;T</sup>    | ----                       |      |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 11.0                      | 9.14                        | 11.5                        | 16.4                       | ----                       |      |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.132                     | 0.0855                      | 0.0905                      | 0.0768                     | ----                       |      |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                  | <0.0000050                  | <0.0000050                 | ----                       |      |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000430 <sup>&lt;T</sup> | 0.000490 <sup>&lt;T</sup>   | 0.000354 <sup>&lt;T</sup>   | 0.00114 <sup>&lt;T</sup>   | ----                       |      |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00134 <sup>&lt;T</sup>  | 0.00135 <sup>&lt;T</sup>    | 0.00166 <sup>&lt;T</sup>    | 0.00196 <sup>&lt;T</sup>   | ----                       |      |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                    | <0.050                      | 0.062                       | 0.062                      | ----                       |      |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.638                     | 0.835                       | 0.996                       | 2.08                       | ----                       |      |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00103                   | 0.00226                     | 0.00147                     | 0.00214                    | ----                       |      |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000190 <sup>&lt;T</sup> | 0.000186 <sup>&lt;T</sup>   | 0.000199 <sup>&lt;T</sup>   | 0.000250 <sup>&lt;T</sup>  | ----                       |      |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.77                      | 1.65                        | 1.95                        | 2.16                       | ----                       |      |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                   | <0.000010                  | ----                       |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID          | SW29A_SW_20<br>240604<br>SW | SW28A_SW_20<br>240604<br>SW | SW20_SW_202<br>40604<br>SW | SW03_SW_202<br>40604<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time |            |            |           |      |                           | 04-Jun-2024<br>12:35        | 04-Jun-2024<br>12:45        | 04-Jun-2024<br>13:00       | 04-Jun-2024<br>13:05       | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2405838-016             | TY2405838-017               | TY2405838-018               | TY2405838-019              | -----                      |      |
|                             |            |            |           |      | Result                    | Result                      | Result                      | Result                     | ----                       |      |
| Total Metals                |            |            |           |      |                           |                             |                             |                            |                            |      |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 1.59                      | 1.16                        | 8.54                        | 8.83                       | ----                       |      |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0549                    | 0.0400                      | 0.0686                      | 0.149                      | ----                       |      |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 0.77                      | 0.93                        | 1.03                        | 17.7                       | ----                       |      |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                    | <0.00020                   | ----                       |      |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                   | <0.000010                  | ----                       |      |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                    | <0.00010                   | ----                       |      |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                    | <0.00010                   | ----                       |      |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00076                   | 0.00750                     | 0.00353                     | 0.00830                    | ----                       |      |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                    | <0.00010                   | ----                       |      |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000143 <sup>&lt;T</sup> | 0.000248 <sup>&lt;T</sup>   | 0.000292 <sup>&lt;T</sup>   | 0.000919 <sup>&lt;T</sup>  | ----                       |      |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00062                   | 0.00130                     | 0.00106                     | 0.00156                    | ----                       |      |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | <0.0030                     | 0.0030                      | 0.0030                     | ----                       |      |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00027                   | 0.00037                     | 0.00045                     | 0.00042                    | ----                       |      |
| Dissolved Metals            |            |            |           |      |                           |                             |                             |                            |                            |      |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0104                    | 0.0154                      | 0.0194                      | 0.0355                     | ----                       |      |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                    | 0.00030                    | ----                       |      |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00106                   | 0.00091                     | 0.00113                     | 0.00136                    | ----                       |      |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0148                    | 0.00988                     | 0.0163                      | 0.0233                     | ----                       |      |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                   | <0.000020                   | <0.000020                  | ----                       |      |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                   | <0.000050                  | ----                       |      |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.012                     | 0.011                       | 0.015                       | 0.023                      | ----                       |      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                  | 0.0000061                   | 0.0000081                  | ----                       |      |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 25.2                      | 19.9                        | 26.6                        | 41.5                       | ----                       |      |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                   | <0.000010                  | ----                       |      |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                    | <0.00050                    | <0.00050                   | ----                       |      |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00032                   | <0.00010                    | 0.00021                     | 0.00025                    | ----                       |      |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00043                   | 0.00068                     | 0.00075                     | 0.00192                    | ----                       |      |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.284                     | 0.170                       | 0.348                       | 0.275                      | ----                       |      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                   | 0.000060                   | ----                       |      |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                       |            |            |           |      | Client sample ID | SW29A_SW_20<br>240604<br>SW | SW28A_SW_20<br>240604<br>SW | SW20_SW_202<br>40604<br>SW | SW03_SW_202<br>40604<br>SW | ---- |
|---------------------------------------|------------|------------|-----------|------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time           |            |            |           |      |                  | 04-Jun-2024<br>12:35        | 04-Jun-2024<br>12:45        | 04-Jun-2024<br>13:00       | 04-Jun-2024<br>13:05       | ---- |
| Analyte                               | CAS Number | Method/Lab | LOR       | Unit | TY2405838-016    | TY2405838-017               | TY2405838-018               | TY2405838-019              | -----                      |      |
|                                       |            |            |           |      | Result           | Result                      | Result                      | Result                     | ----                       |      |
| Dissolved Metals                      |            |            |           |      |                  |                             |                             |                            |                            |      |
| Lithium, dissolved                    | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0030           | 0.0025                      | 0.0037                      | 0.0067                     |                            | ---- |
| Magnesium, dissolved                  | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 10.7             | 9.00                        | 11.5                        | 16.5                       |                            | ---- |
| Manganese, dissolved                  | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.121            | 0.0198                      | 0.0642                      | 0.0631                     |                            | ---- |
| Mercury, dissolved                    | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050       | <0.0000050                  | <0.0000050                  | <0.0000050                 |                            | ---- |
| Molybdenum, dissolved                 | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000424         | 0.000419                    | 0.000339                    | 0.00106                    |                            | ---- |
| Nickel, dissolved                     | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00113          | 0.00104                     | 0.00152                     | 0.00169                    |                            | ---- |
| Phosphorus, dissolved                 | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050           | <0.050                      | <0.050                      | <0.050                     |                            | ---- |
| Potassium, dissolved                  | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.611            | 0.762                       | 0.948                       | 2.00                       |                            | ---- |
| Rubidium, dissolved                   | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00099          | 0.00158                     | 0.00119                     | 0.00155                    |                            | ---- |
| Selenium, dissolved                   | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000192         | 0.000170                    | 0.000225                    | 0.000267                   |                            | ---- |
| Silicon, dissolved                    | 7440-21-3  | E421/TY    | 0.050     | mg/L | 2.66             | 1.01                        | 1.60                        | 1.54                       |                            | ---- |
| Silver, dissolved                     | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010        | <0.000010                   | <0.000010                   | <0.000010                  |                            | ---- |
| Sodium, dissolved                     | 7440-23-5  | E421/TY    | 0.050     | mg/L | 1.52             | 1.14                        | 8.44                        | 8.87                       |                            | ---- |
| Strontium, dissolved                  | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0554           | 0.0392                      | 0.0697                      | 0.150                      |                            | ---- |
| Sulfur, dissolved                     | 7704-34-9  | E421/TY    | 0.50      | mg/L | 0.58             | 0.59                        | 0.88                        | 17.2                       |                            | ---- |
| Tellurium, dissolved                  | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020         | <0.00020                    | <0.00020                    | <0.00020                   |                            | ---- |
| Thallium, dissolved                   | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010        | <0.000010                   | <0.000010                   | <0.000010                  |                            | ---- |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                    | <0.00010                    | <0.00010                   |                            | ---- |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                    | <0.00010                    | <0.00010                   |                            | ---- |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00041          | 0.00045                     | 0.00074                     | 0.00060                    |                            | ---- |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010         | <0.00010                    | <0.00010                    | <0.00010                   |                            | ---- |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000124         | 0.000186                    | 0.000252                    | 0.000828                   |                            | ---- |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050         | <0.00050                    | 0.00071                     | 0.00086                    |                            | ---- |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010    | mg/L | <0.0010          | 0.0011                      | 0.0016                      | 0.0014                     |                            | ---- |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030         | <0.00030                    | 0.00045                     | <0.00030                   |                            | ---- |
| Dissolved mercury filtration location | ----       | EP509/WT   | -         | -    | Field            | Field                       | Field                       | Field                      |                            | ---- |
| Dissolved metals filtration location  | ----       | EP421/TY   | -         | -    | Laboratory       | Laboratory                  | Laboratory                  | Laboratory                 |                            | ---- |
| Aggregate Organics                    |            |            |           |      |                  |                             |                             |                            |                            |      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0       | mg/L | <2.0             | <2.0                        | <2.0                        | <2.0                       |                            | ---- |



Analytical Results

|                                              |            |            |       |      |                  |                             |                             |                            |                            |      |
|----------------------------------------------|------------|------------|-------|------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW29A_SW_20<br>240604<br>SW | SW28A_SW_20<br>240604<br>SW | SW20_SW_202<br>40604<br>SW | SW03_SW_202<br>40604<br>SW | ---- |
| Client sampling date / time                  |            |            |       |      |                  | 04-Jun-2024<br>12:35        | 04-Jun-2024<br>12:45        | 04-Jun-2024<br>13:00       | 04-Jun-2024<br>13:05       | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2405838-016    | TY2405838-017               | TY2405838-018               | TY2405838-019              | -----                      |      |
|                                              |            |            |       |      | Result           | Result                      | Result                      | Result                     | ----                       |      |
| Aggregate Organics                           |            |            |       |      |                  |                             |                             |                            |                            |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 83               | 91                          | 89                          | 86                         | ----                       |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | <1.0             | <1.0                        | <1.0                        | <1.0                       | ----                       |      |
| Radiological Parameters                      |            |            |       |      |                  |                             |                             |                            |                            |      |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | ----             | ----                        | <0.005                      | ----                       | ----                       |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## ***Test Report***

SRC Group # 2024-6882

Jun 28, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Jun-11-2024

Client P.O.: TY2405838

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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 Snook, Vicky

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

**SRC Group # 2024-6882**

Jun 28, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

|                |                                                         |                |                     |
|----------------|---------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024018955</b>                                       | Client PO #:   | <b>TY2405838</b>    |
| Date Sampled:  | <b>Jun 04, 2024</b>                                     | Date Received: | <b>Jun 11, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                            |                |                     |
| Description:   | <b>06/04/2024 08:15 SW22A_SW_20240604 TY2405838-002</b> |                |                     |

| 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 6.6 °C upon receipt.

**SRC Group # 2024-6882**

Jun 28, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024018956** Client PO #: **TY2405838**  
Date Sampled: **Jun 04, 2024** Date Received: **Jun 11, 2024**  
Sample Matrix: **WATER**  
Description: **06/04/2024 10:50 SW23\_SW\_20240604 TY2405838-011**

| 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 6.6 °C upon receipt.

**SRC Group # 2024-6882**

Jun 28, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024018957** Client PO #: **TY2405838**  
Date Sampled: **Jun 04, 2024** Date Received: **Jun 11, 2024**  
Sample Matrix: **WATER**  
Description: **06/04/2024 11:05 SW24\_SW\_20240604 TY2405838-014**

| 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 6.6 °C upon receipt.

**SRC Group # 2024-6882**

Jun 28, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024018958** Client PO #: **TY2405838**  
Date Sampled: **Jun 04, 2024** Date Received: **Jun 11, 2024**  
Sample Matrix: **WATER**  
Description: **06/04/2024 12:00 SW20\_SW\_20240604 TY2405838-018**

| 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 6.6 °C upon receipt.

SRC Group # 2024-6882

Jun 28, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |





TY2405838



Telephone : +1 807 623 6463

**COC Number:** ALS-454494000

June 7, 2024 11:00am MWC  
Maristoulis (9)  
1.7, 6.0, 10.5, 7.3, 9.1, 7.2, 8.8,  
11.1, 6.4

|   | Sample Code       | Field DO(mg/L) | Field pH (pH Units) | Field Temp | Date and Time    | Matrix | Hg-TC | MEHG (Meth) | NG-S | RA22C |  |  |  |  |  | Num | Comments |
|---|-------------------|----------------|---------------------|------------|------------------|--------|-------|-------------|------|-------|--|--|--|--|--|-----|----------|
| 1 | FB_SW_20240604    |                |                     |            | 06/04/2024 00:00 | SW     |       |             | X    |       |  |  |  |  |  | 11  |          |
| 2 | SW22A_SW_20240604 | 6.51           | 7.41                | 18.08      | 06/04/2024 09:15 | SW     |       |             | X    |       |  |  |  |  |  | 12  |          |
|   | SW22A_SW_20240604 | 6.51           | 7.41                | 18.08      | 06/04/2024 09:15 | SW     |       |             |      | X     |  |  |  |  |  | 12  |          |
| 3 | SW16_SW_20240604  | 9.17           | 7.19                | 14.63      | 06/04/2024 09:20 | SW     |       |             | X    |       |  |  |  |  |  | 11  |          |
| 4 | SW02_SW_20240604  | 5.54           | 6.79                | 17.85      | 06/04/2024 09:50 | SW     |       |             | X    |       |  |  |  |  |  | 11  |          |
| 5 | SW25_SW_20240604  | 6.2            | 7.41                | 18.31      | 06/04/2024 10:15 | SW     |       |             | X    |       |  |  |  |  |  | 11  |          |

| Signature   | Date/Time           | Shipping Details                                                                    | ATTN | Special Instructions:                                                                                                        |
|-------------|---------------------|-------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------|
| Shipped by  | 6/6/2024 9:36:00 AM | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no                       |      |                                                                                                                              |
| Received by |                     | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |      | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 6/6/2024 9:36:00 AM<br><b>COC Number:</b> ALS-454494000 |                |                     |            |                  |        | <b>Containers</b>    |                               |            |               | Number of Containers |  |  |  |  |  |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|------------------|--------|----------------------|-------------------------------|------------|---------------|----------------------|--|--|--|--|--|----|
|                                                                                                                                                                                                                                                                                                                            |                |                     |            |                  |        | <b>Filtered</b>      |                               |            |               |                      |  |  |  |  |  |    |
|                                                                                                                                                                                                                                                                                                                            |                |                     |            |                  |        | <b>Preservatives</b> |                               |            |               |                      |  |  |  |  |  |    |
|                                                                                                                                                                                                                                                                                                                            |                |                     |            |                  |        |                      |                               |            |               |                      |  |  |  |  |  |    |
|                                                                                                                                                                                                                                                                                                                            |                |                     |            |                  |        |                      |                               |            |               |                      |  |  |  |  |  |    |
| Sample Code                                                                                                                                                                                                                                                                                                                | Field DO(mg/L) | Field pH (pH Units) | Field Temp | Date and Time    | Matrix | HG-TOT_DIS-WT        | MEHG-T-GCAF-VA<br>(Methyl Hg) | NG-SW-P-TB | RA226-MMER-BE |                      |  |  |  |  |  |    |
| 6 SW17_SW_20240604                                                                                                                                                                                                                                                                                                         | 6.72           | 6.9                 | 15.94      | 06/04/2024 10:30 | SW     |                      |                               | X          |               |                      |  |  |  |  |  | 11 |
| 7 SW26_SW_20240604                                                                                                                                                                                                                                                                                                         | 6.85           | 7.58                | 18.2       | 06/04/2024 10:40 | SW     |                      |                               | X          |               |                      |  |  |  |  |  | 11 |
| 8 SW15_SW_20240604                                                                                                                                                                                                                                                                                                         | 4.87           | 7.36                | 17.4       | 06/04/2024 11:10 | SW     |                      |                               | X          |               |                      |  |  |  |  |  | 11 |
| 9 SW21A_SW_20240604                                                                                                                                                                                                                                                                                                        | 6.86           | 7.49                | 19.16      | 06/04/2024 11:15 | SW     |                      |                               | X          |               |                      |  |  |  |  |  | 11 |
| 10 SW27_SW_20240604                                                                                                                                                                                                                                                                                                        | 5.15           | 7.44                | 17.15      | 06/04/2024 11:33 | SW     |                      |                               | X          |               |                      |  |  |  |  |  | 11 |
| 11 SW23_SW_20240604                                                                                                                                                                                                                                                                                                        | 5.73           | 7.3                 | 17.99      | 06/04/2024 11:50 | SW     |                      |                               | X          |               |                      |  |  |  |  |  | 12 |
| SW23_SW_20240604                                                                                                                                                                                                                                                                                                           | 5.73           | 7.3                 | 17.99      | 06/04/2024 11:50 | SW     |                      |                               |            | X             |                      |  |  |  |  |  | 12 |

|                  |  |                     |                             |  |             |                                                                                                                |
|------------------|--|---------------------|-----------------------------|--|-------------|----------------------------------------------------------------------------------------------------------------|
| <b>Signature</b> |  | <b>Data/Time</b>    | <b>Shipping Details</b>     |  | <b>ATTN</b> | <b>Special Instructions:</b>                                                                                   |
| Shipped by       |  | 6/6/2024 9:36:00 AM | Method of Shipment: Courier |  |             |                                                                                                                |
|                  |  |                     | On Ice: yes / no            |  |             |                                                                                                                |
| Received by      |  |                     | Shipped: Air/Ground         |  |             |                                                                                                                |
|                  |  |                     | Lab Name: ALS Thunder Bay   |  |             |                                                                                                                |
|                  |  |                     | Lab Phone:                  |  |             |                                                                                                                |
|                  |  |                     |                             |  |             | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 6/6/2024 9:36:00 AM<br><b>COC Number:</b> ALS-454494000 |                |          |            |                  |        | <b>Containers</b>    |  | Mercury - Total and | MeHg Bottle                | SW Kit     | Ra-226 Bottle |  |  |    |  |  | <b>Number of Containers</b> |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|------------|------------------|--------|----------------------|--|---------------------|----------------------------|------------|---------------|--|--|----|--|--|-----------------------------|--|
|                                                                                                                                                                                                                                                                                                                            |                |          |            |                  |        | <b>Filtered</b>      |  | N                   | N                          | N          | N             |  |  |    |  |  |                             |  |
|                                                                                                                                                                                                                                                                                                                            |                |          |            |                  |        | <b>Preservatives</b> |  |                     |                            |            |               |  |  |    |  |  |                             |  |
|                                                                                                                                                                                                                                                                                                                            |                |          |            |                  |        |                      |  | HG-TOT_DIS-WT       | MEHG-T-GCAF-VA (Methyl Hg) | NG-SW-P-TB | RA226-MMER-BE |  |  |    |  |  |                             |  |
| Sample Code                                                                                                                                                                                                                                                                                                                | Field DO(mg/L) | Field pH | Field Temp | Date and Time    | Matrix |                      |  |                     |                            |            |               |  |  |    |  |  |                             |  |
| 12 SW06_SW_20240604                                                                                                                                                                                                                                                                                                        | 6.85           | 7.58     | 18.2       | 06/04/2024 12:00 | SW     |                      |  | X                   |                            |            |               |  |  | 11 |  |  |                             |  |
| 13 TB_SW_20240604                                                                                                                                                                                                                                                                                                          |                |          |            | 06/04/2024 12:00 | SW     |                      |  | X                   |                            |            |               |  |  | 11 |  |  |                             |  |
| 14 SW24_SW_20240604                                                                                                                                                                                                                                                                                                        | 5.83           | 7.35     | 17.97      | 06/04/2024 12:05 | SW     |                      |  | X                   |                            |            |               |  |  | 12 |  |  |                             |  |
| SW24_SW_20240604                                                                                                                                                                                                                                                                                                           | 5.83           | 7.35     | 17.97      | 06/04/2024 12:05 | SW     |                      |  |                     | X                          |            |               |  |  | 12 |  |  |                             |  |
| 15 SW10_SW_20240604                                                                                                                                                                                                                                                                                                        | 7.19           | 7.5      | 19.95      | 06/04/2024 12:30 | SW     |                      |  | X                   |                            |            |               |  |  | 11 |  |  |                             |  |
| 16 SW29A_SW_20240604                                                                                                                                                                                                                                                                                                       | 0.38           | 6.91     | 16.96      | 06/04/2024 12:35 | SW     |                      |  | X                   |                            |            |               |  |  | 11 |  |  |                             |  |
| 17 SW28A_SW_20240604                                                                                                                                                                                                                                                                                                       | 7.39           | 7.49     | 21.53      | 06/04/2024 12:45 | SW     |                      |  | X                   |                            |            |               |  |  | 11 |  |  |                             |  |

|                    |                  |                                                                                                           |  |             |                                                                                                                              |
|--------------------|------------------|-----------------------------------------------------------------------------------------------------------|--|-------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Signature</b>   | <b>Date/Time</b> | <b>Shipping Details</b>                                                                                   |  | <b>ATTN</b> | <b>Special Instructions:</b>                                                                                                 |
|                    |                  | <b>Shipped by</b><br>6/6/2024 9:36:00 AM<br><b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no |  |             |                                                                                                                              |
| <b>Received by</b> |                  | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b>                       |  |             | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |

|                                                                                                                                                                                                                                                                                                                            |                       |                 |                   |                      |               |                      |   |                     |                            |            |               |  |  |    |  |  |                             |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|-------------------|----------------------|---------------|----------------------|---|---------------------|----------------------------|------------|---------------|--|--|----|--|--|-----------------------------|-----------------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 6/6/2024 9:36:00 AM<br><b>COC Number:</b> ALS-454494000 |                       |                 |                   |                      |               | <b>Containers</b>    |   | Mercury - Total and | MeHg Bottle                | SW Kit     | Ra-226 Bottle |  |  |    |  |  | <b>Number of Containers</b> | <b>Comments</b> |
|                                                                                                                                                                                                                                                                                                                            |                       |                 |                   |                      |               | <b>Filtered</b>      |   | N                   | N                          | N          | N             |  |  |    |  |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                       |                 |                   |                      |               | <b>Preservatives</b> |   |                     |                            |            |               |  |  |    |  |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                       |                 |                   |                      |               |                      |   | HG-TOT_DIS-WT       | MEHG-T-GCAF-VA (Methyl Hg) | NG-SW-P-TB | RA226-MMER-BE |  |  |    |  |  |                             |                 |
| <b>Sample Code</b>                                                                                                                                                                                                                                                                                                         | <b>Field DO(mg/L)</b> | <b>Field pH</b> | <b>Field Temp</b> | <b>Date and Time</b> | <b>Matrix</b> |                      |   |                     |                            |            |               |  |  |    |  |  |                             |                 |
| SW20_SW_20240604<br>18                                                                                                                                                                                                                                                                                                     | 5.31                  | 7.22            | 19.35             | 06/04/2024 13:00     | SW            |                      |   | X                   |                            |            |               |  |  | 12 |  |  |                             |                 |
| SW20_SW_20240604                                                                                                                                                                                                                                                                                                           | 5.31                  | 7.22            | 19.35             | 06/04/2024 13:00     | SW            |                      |   |                     | X                          |            |               |  |  | 12 |  |  |                             |                 |
| SW03_SW_20240604<br>19                                                                                                                                                                                                                                                                                                     | 5.95                  | 7.5             | 19.05             | 06/04/2024 13:05     | SW            |                      |   | X                   |                            |            |               |  |  | 11 |  |  |                             |                 |
| 1- TEEPLE<br>CULVERT_MM_20240604                                                                                                                                                                                                                                                                                           | 7.1                   | 7.47            | 20.71             | 06/04/2024 13:15     | SW            | X                    | X |                     |                            |            |               |  |  | 3  |  |  |                             |                 |

**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

|                    |                     |                                                                                     |             |                                                                                                                              |
|--------------------|---------------------|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Signature</b>   | <b>Date/Time</b>    | <b>Shipping Details</b>                                                             | <b>ATTN</b> | <b>Special Instructions:</b>                                                                                                 |
| <b>Shipped by</b>  | 6/6/2024 9:36:00 AM | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no                       |             |                                                                                                                              |
| <b>Received by</b> |                     | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |             | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |

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

|                                                                                       |  |  |  |                                                                                       |  |  |  |
|---------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------|--|--|--|
| 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  | 6/6/2024 9:36:00 AM | Method of Shipment: Courier |      |                                   |
|             |                     | On Ice: yes / no            |      |                                   |
| Received by |                     | Shipped: Air/Ground         |      | Email Invoice to:                 |
|             |                     | Lab Name: ALS Thunder Bay   |      | rainyriver.accounts1@newgold.com  |
|             |                     | Lab Phone:                  |      | Email Report to:                  |
|             |                     |                             |      | rainyriver.labresults@newgold.com |

# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                          |                                     |                           |
|----------------------------------------------|------------------------------------------|-------------------------------------|---------------------------|
| Priority/Emergency Service Requested         | YES                                      | <input checked="" type="radio"/> NO |                           |
| Time Sensitive Hold Time                     | YES                                      | <input checked="" type="radio"/> NO |                           |
| Client:                                      | Newbold                                  |                                     |                           |
| SAMPLE RECEIPT INFORMATION                   |                                          |                                     |                           |
| Mode of Delivery:                            | <input checked="" type="radio"/> Courier | Drop Off                            |                           |
| Courier                                      | Manitowish                               |                                     |                           |
| Waybill Number                               | 33031551084                              |                                     |                           |
| Temperature                                  | see COC                                  | Cooler Count                        | 169                       |
| Cooling Method                               | None                                     | Ice                                 | Ice Packs                 |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                          |                                     |                           |
| Matrix:                                      | <input checked="" type="radio"/> Water   | <input type="radio"/> Soil          | <input type="radio"/> Air |
|                                              | <input type="radio"/> Biota              | <input type="radio"/> Other         |                           |
| DW Schedule 24 Bottles Correct?              |                                          | Yes                                 | No                        |
| DW Metals pH Check <2                        |                                          | Yes                                 | No                        |
| Regulation Circled, Works # present          | Yes                                      | No - Reject?                        |                           |
| # of Bottles:                                | Sample Count                             |                                     |                           |
| Green/white                                  | routine, BOD                             |                                     |                           |
| Purple/white                                 | 2x nuts, DOC                             |                                     |                           |
| Warm red/white                               | tot met, dis met                         |                                     |                           |
| Yellow/black                                 | tot Hg, dis Hg, 2x OGG                   |                                     |                           |
| Light blue/white                             |                                          |                                     |                           |
| Orange/black                                 |                                          |                                     |                           |
| Others (detail)                              | CN<br>4 have Radium                      |                                     |                           |
| Comments on Samples and Bottles:             |                                          |                                     |                           |
| Samples Requiring Preservation or Filtering: |                                          |                                     |                           |
| Layout Staff Initials                        | Date and Time of Layout                  |                                     |                           |
|                                              | APS 7-Jun-24 14:40                       |                                     |                           |

| ACCOUNT INFO VERIFICATION                                        |                                      |                                     |
|------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| Priority/Emergency Service Requested                             | YES                                  | <input checked="" type="radio"/> NO |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |                                      |                                     |
| Client                                                           | Work Contact                         | Quote                               |
| RECEIPT DETAIL                                                   |                                      |                                     |
| Project                                                          | PO                                   | Site/LSD                            |
| Overall Description Entered                                      | Yes                                  | <input checked="" type="radio"/> NA |
| Received date/time as per COC                                    |                                      |                                     |
| Recipients match CoC or Sample Remarks                           | <input checked="" type="radio"/> Yes | No                                  |
| Billing Instruction added to remarks                             | <input checked="" type="radio"/> Yes | NA                                  |
| Sample Remarks/Specification Doc checked                         |                                      |                                     |
| Submission Issues communicated                                   | Yes                                  | <input checked="" type="radio"/> NA |
| Sample Info communicated via Remarks                             | Yes                                  | <input checked="" type="radio"/> NA |
| VERIFICATION CHECKLIST                                           |                                      |                                     |
| Planned Event Submission                                         | <input checked="" type="radio"/> Yes | No                                  |
| Sample Name entered as per CoC                                   |                                      |                                     |
| Sampling Date and time entered as per CoC                        |                                      |                                     |
| Containers selected in layout order                              |                                      |                                     |
| Sales items entered from QUOTE ONLY (and/or verified as correct) |                                      |                                     |
| Field Data/EC298A removed if not on COC                          | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> No |
| Bottle Allocation Verified                                       |                                      |                                     |
| Guideline added or auto-allocated                                |                                      |                                     |
| Due dates updated                                                |                                      |                                     |
| VALIDATION                                                       |                                      |                                     |
| Validation errors resolved?                                      | <input checked="" type="radio"/> Yes | No                                  |
| Internal Sublet CoC created                                      | <input checked="" type="radio"/> Yes | NA                                  |
| Login Comments:                                                  |                                      |                                     |
|                                                                  |                                      |                                     |
| Login Staff Initials:                                            | AM                                   |                                     |

## CERTIFICATE OF ANALYSIS

|                                |                                                             |                                |                                                               |
|--------------------------------|-------------------------------------------------------------|--------------------------------|---------------------------------------------------------------|
| <b>Work Order</b>              | <b>: TY2405843</b>                                          | <b>Page</b>                    | <b>: 1 of 4</b>                                               |
| <b>Client</b>                  | <b>: New Gold Inc. (Rainy River)</b>                        | <b>Laboratory</b>              | <b>: ALS Environmental - Thunder Bay</b>                      |
| <b>Contact</b>                 | <b>: Garnet.Cornell@newgold.com Garnet Cornell</b>          | <b>Account Manager</b>         | <b>: Christine Paradis</b>                                    |
| <b>Address</b>                 | <b>: 24 Marr Rd.<br/>Barwick ON Canada P0W 1A0</b>          | <b>Address</b>                 | <b>: 1081 Barton Street<br/>Thunder Bay ON Canada P7B 5N3</b> |
| <b>Telephone</b>               | <b>: 807 234 8170</b>                                       | <b>Telephone</b>               | <b>: +1 807 623 6463</b>                                      |
| <b>Project</b>                 | <b>: Methyl Mercury</b>                                     | <b>Date Samples Received</b>   | <b>: 07-Jun-2024 11:10</b>                                    |
| <b>PO</b>                      | <b>: 4700003796</b>                                         | <b>Date Analysis Commenced</b> | <b>: 26-Jun-2024</b>                                          |
| <b>C-O-C number</b>            | <b>: ----</b>                                               | <b>Issue Date</b>              | <b>: 30-Jun-2024 17:24</b>                                    |
| <b>Sampler</b>                 | <b>: ----</b>                                               |                                |                                                               |
| <b>Site</b>                    | <b>: New Gold Inc. (Rainy River)</b>                        |                                |                                                               |
| <b>Quote number</b>            | <b>: New Gold Rainy River Project - Pick a Project 2024</b> |                                |                                                               |
| <b>No. of samples received</b> | <b>: 10</b>                                                 |                                |                                                               |
| <b>No. of samples analysed</b> | <b>: 10</b>                                                 |                                |                                                               |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Laboratory Department</i>      |
|--------------------|-----------------|-----------------------------------|
| Jin Kim            | Analyst         | Metals, Burnaby, British Columbia |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit | Description          |
|------|----------------------|
| µg/L | micrograms per litre |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.





Analytical Results

|                                              |            |            |          |      |                  |                      |       |       |       |       |
|----------------------------------------------|------------|------------|----------|------|------------------|----------------------|-------|-------|-------|-------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID | Site 6<br>SW         | ----  | ----  | ----  | ----  |
| Client sampling date / time                  |            |            |          |      |                  | 04-Jun-2024<br>12:05 | ----  | ----  | ----  | ----  |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2405843-009    | Result               | ----- | ----- | ----- | ----- |
| Speciated Metals                             |            |            |          |      |                  |                      |       |       |       |       |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA    | 0.000020 | µg/L | 0.000396         | ----                 | ----  | ----  | ----  | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

|                                             |            |            |          |      |                  |                             |                             |                             |                                |                             |
|---------------------------------------------|------------|------------|----------|------|------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|-----------------------------|
| Sub-Matrix: Water (MISA)<br>(Matrix: Water) |            |            |          |      | Client sample ID | MRP_EFF_2024<br>0605<br>EFF | SP2_EFF_2024<br>0605<br>EFF | SP1_EFF_2024<br>0605<br>EFF | Cell2R_EFF_202<br>40605<br>EFF | WMP_EFF_202<br>40605<br>EFF |
| Client sampling date / time                 |            |            |          |      |                  | 06-Jun-2024<br>09:20        | 06-Jun-2024<br>09:00        | 05-Jun-2024<br>10:40        | 05-Jun-2024<br>11:20           | 05-Jun-2024<br>11:00        |
| Analyte                                     | CAS Number | Method/Lab | LOR      | Unit | TY2405843-001    | TY2405843-002               | TY2405843-003               | TY2405843-004               | TY2405843-005                  | Result                      |
| Speciated Metals                            |            |            |          |      |                  |                             |                             |                             |                                |                             |
| Methylmercury (as MeHg), total              | 22967-92-6 | E536/VA    | 0.000020 | µg/L | <0.000020        | 0.000511                    | 0.000146                    | <0.000020                   | 0.000028                       |                             |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                |            |            |          |      |                             |                      |                      |                      |                      |      |
|--------------------------------|------------|------------|----------|------|-----------------------------|----------------------|----------------------|----------------------|----------------------|------|
| Sub-Matrix: Water (MISA)       |            |            |          |      | Client sample ID            | Site 2<br>EFF        | Site 3<br>EFF        | Site 4<br>EFF        | Site 5<br>EFF        | ---- |
| (Matrix: Water)                |            |            |          |      |                             |                      |                      |                      |                      |      |
|                                |            |            |          |      | Client sampling date / time | 04-Jun-2024<br>13:00 | 04-Jun-2024<br>12:30 | 04-Jun-2024<br>09:15 | 04-Jun-2024<br>13:05 | ---- |
| Analyte                        | CAS Number | Method/Lab | LOR      | Unit | TY2405843-006               | TY2405843-007        | TY2405843-008        | TY2405843-010        | -----                |      |
|                                |            |            |          |      | Result                      | Result               | Result               | Result               | Result               | ---- |
| Speciated Metals               |            |            |          |      |                             |                      |                      |                      |                      |      |
| Methylmercury (as MeHg), total | 22967-92-6 | E536/VA    | 0.000020 | µg/L | 0.000497                    | 0.000395             | 0.000395             | 0.000381             |                      | ---- |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

**Project Name:** Rainy River  
**Location:** Chapple  
**Project Number:**  
**Project Manager:**  
**PO Number:**  
**Project:**  
**Turn Around Time (days):** 10 Business Days  
**Shipping Company:**  
**Shipping Date:** 7/13/2023 7:26:00 AM  
**COC Number:** ALS-451203097

June 7, 2024 11:10 am ANS  
Mauritolin   
6.4, 11.7, 6.0, 10.5, 7.3, 9.1, 7.2, 8.8, 11.1

Take sample  
times  
from  
Bottles

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2405843**

Telephone : +1 807 623 6463

|             |                      |                                                                      |                                                                                                          |
|-------------|----------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Shipped by  | 7/13/2023 7:26:00 AM | Method of Shipment: Courier                                          |                                                                                                          |
| Received by |                      | On Ice: yes / no<br>Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay | Email Invoice to: rainyriver.accounts1@newgold.com Email<br>Report to: rainyriver.labresults@newgold.com |

# Intake and Login Verification Form

| SAMPLE INTAKE                                                                     |                                          |                                      |                                            | ACCOUNT INFO VERIFICATION                                  |              |                          |  |
|-----------------------------------------------------------------------------------|------------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------------------------|--------------|--------------------------|--|
| Priority/Emergency Service Requested                                              | YES                                      | <input checked="" type="radio"/> NO  |                                            | Priority/Emergency Service Requested                       | YES          | <input type="radio"/> NO |  |
| Time Sensitive Hold Time                                                          | YES                                      | <input checked="" type="radio"/> NO  |                                            | Confirmed all as accurate as per COC, Sample Remarks or PM |              |                          |  |
| Client:                                                                           | New Gold                                 |                                      |                                            | Client                                                     | Work Contact | Quote                    |  |
| SAMPLE RECEIPT INFORMATION                                                        |                                          |                                      |                                            | RECEIPT DETAIL                                             |              |                          |  |
| Mode of Delivery:                                                                 | <input checked="" type="radio"/> Courier | Drop Off                             |                                            | Project                                                    | PO           | Site/LSD                 |  |
| Courier                                                                           | Monitaur                                 |                                      |                                            | Overall Description Entered                                | Yes          | NA                       |  |
| Waybill Number                                                                    | 7.3 9.1 7.2 8.8                          |                                      |                                            | Received date/time as per COC                              |              |                          |  |
| Temperature                                                                       | 6.4 11.7 6.0 10.5                        | Cooler Count                         | 11                                         | Recipients match CoC or Sample Remarks                     | Yes          | No                       |  |
| Cooling Method                                                                    | None                                     | Ice                                  | <input checked="" type="radio"/> Ice Packs | Billing Instruction added to remarks                       | Yes          | NA                       |  |
| SAMPLE MATRIX/BOTTLE INFORMATION                                                  |                                          |                                      |                                            | VERIFICATION CHECKLIST                                     |              |                          |  |
| Matrix:                                                                           | <input checked="" type="radio"/> Water   | Soil                                 | Air                                        | Biota                                                      | Other        |                          |  |
| DW Schedule 24 Bottles Correct?                                                   |                                          | <input checked="" type="radio"/> Yes |                                            | <input type="radio"/> No                                   |              |                          |  |
| DW Metals pH Check <2                                                             |                                          | <input checked="" type="radio"/> Yes |                                            | <input type="radio"/> No                                   |              |                          |  |
| Regulation Circled, Works # present                                               | Yes                                      | <input checked="" type="radio"/> No  |                                            | Reject?                                                    |              |                          |  |
| # of Bottles:                                                                     | 1                                        | Sample Count                         | 5                                          |                                                            |              |                          |  |
| Green/white                                                                       |                                          |                                      |                                            |                                                            |              |                          |  |
| Purple/white                                                                      |                                          |                                      |                                            |                                                            |              |                          |  |
| Warm red/white                                                                    |                                          |                                      |                                            |                                                            |              |                          |  |
| Yellow/black                                                                      |                                          |                                      |                                            |                                                            |              |                          |  |
| Light blue/white                                                                  |                                          |                                      |                                            |                                                            |              |                          |  |
| Orange/black                                                                      |                                          |                                      |                                            |                                                            |              |                          |  |
| Others (detail)                                                                   | Sx metls                                 |                                      |                                            |                                                            |              |                          |  |
| Comments on Samples and Bottles:<br>Bottle times: 9:20, 9:00, 10:40, 11:20, 11:00 |                                          |                                      |                                            |                                                            |              |                          |  |
| Samples Requiring Preservation or Filtering:                                      |                                          |                                      |                                            |                                                            |              |                          |  |
| Layout Staff Initials                                                             | MM 6/7/24 1455                           |                                      |                                            |                                                            |              |                          |  |
| Date and Time of Layout                                                           |                                          |                                      |                                            |                                                            |              |                          |  |
| VALIDATION                                                                        |                                          |                                      |                                            |                                                            |              |                          |  |
| Validation errors resolved?                                                       | Yes                                      | <input type="radio"/> No             |                                            |                                                            |              |                          |  |
| Internal Sublet CoC created                                                       | Yes                                      | <input type="radio"/> NA             |                                            |                                                            |              |                          |  |
| Login Comments:                                                                   |                                          |                                      |                                            |                                                            |              |                          |  |
| Login Staff Initials:                                                             | ARJB                                     |                                      |                                            |                                                            |              |                          |  |

45405403

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2405843**



Telephone : +1 807 823 8483

|                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                             |                            |                        |                      |                 |                             |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------|----------------------------|------------------------|----------------------|-----------------|-----------------------------|-----------------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 7/13/2023 7:26:00 AM<br><b>CDC Number:</b> ALS451203097 |  |  |  | <b>Conservant</b><br><b>Filtered</b><br><b>Preservative</b> |                            | <b>Matrix</b>          |                      | <b>Comments</b> |                             |                 |
| <b>Sample Code</b>                                                                                                                                                                                                                                                                                                         |  |  |  | <b>Field Disolved Oxygen (mg/L)</b>                         | <b>Field pH (pH Units)</b> | <b>Field Temp (°C)</b> | <b>Date and Time</b> | <b>Matrix</b>   | <b>Number of Containers</b> | <b>Comments</b> |
| MRP_EFF_20240605                                                                                                                                                                                                                                                                                                           |  |  |  |                                                             |                            |                        | 2024-06-06 0:00      | EFF             | 1                           |                 |
| SP2_EFF_20240605                                                                                                                                                                                                                                                                                                           |  |  |  |                                                             |                            |                        | 2024-06-06 0:00      | EFF             | 1                           |                 |
| SP1_EFF_20240605                                                                                                                                                                                                                                                                                                           |  |  |  |                                                             |                            |                        | 2024-06-06 10:40     | EFF             | 1                           |                 |
| Calibr_EFF_20240605                                                                                                                                                                                                                                                                                                        |  |  |  |                                                             |                            |                        | 2024-06-06 11:20     | EFF             | 1                           |                 |
| WMP_EFF_20240605                                                                                                                                                                                                                                                                                                           |  |  |  |                                                             |                            |                        | 2024-06-06 0:00      | EFF             | 1                           |                 |
| Site 2_20240604                                                                                                                                                                                                                                                                                                            |  |  |  |                                                             |                            |                        | 2024-06-06 13:00     | EFF             | 1                           |                 |
| Site 3_20240604                                                                                                                                                                                                                                                                                                            |  |  |  |                                                             |                            |                        | 2024-06-06 12:30     | EFF             | 1                           |                 |
| Site 4_20240604                                                                                                                                                                                                                                                                                                            |  |  |  |                                                             |                            |                        | 2024-06-06 9:15      | EFF             | 1                           |                 |
| Site 6_20240604                                                                                                                                                                                                                                                                                                            |  |  |  |                                                             |                            |                        | 2024-06-06 12:05     | EFF             | 1                           |                 |
| Site 5_20240604                                                                                                                                                                                                                                                                                                            |  |  |  |                                                             |                            |                        | 2024-06-06 13:05     | EFF             | 1                           |                 |

|                                                                                                                                                                                          |  |                                                                                                                                                                             |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Drinking Water (DW) Samples (client use)</b>                                                                                                                                          |  | <b>Sample Receipt Details (ALS use only)</b>                                                                                                                                |  |
| 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                                                     |  |
| Are samples taken from a Regulated DW System? Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                   |  | Cooler Curedly Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Curedly Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA |  |
| Are samples for human consumption / use? Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                        |  | Initial Cooler Temperature: °C                                                                                                                                              |  |
| Samples from a Regulated DW System require an Authorized DW CDC form                                                                                                                     |  | Final Cooler Temperature: °C                                                                                                                                                |  |

|                  |  |                      |  |                                                                                    |  |             |  |                                                                                                       |  |
|------------------|--|----------------------|--|------------------------------------------------------------------------------------|--|-------------|--|-------------------------------------------------------------------------------------------------------|--|
| <b>Signature</b> |  | <b>Date/Time</b>     |  | <b>Shipping Details</b>                                                            |  | <b>ATTN</b> |  | <b>Special Instructions:</b>                                                                          |  |
| Shipped by       |  | 7/13/2023 7:26:00 AM |  | Method of Shipment: Courier                                                        |  |             |  | Email Invoice to: rainyriver.accounts@newgold.com Email Report to: rainyriver.labsresults@newgold.com |  |
| Received by      |  |                      |  | On Ice: yes / no<br>Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |  |             |  |                                                                                                       |  |

CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2405844                                          | Page                    | : 1 of 3                                              |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Methyl Mercury                                     | Date Samples Received   | : 07-Jun-2024 11:10                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 08-Jun-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 30-Jun-2024 17:24                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 1                                                  |                         |                                                       |
| No. of samples analysed | : 1                                                  |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories | Position            | Laboratory Department                |
|-------------|---------------------|--------------------------------------|
| Jin Kim     | Analyst             | Metals, Burnaby, British Columbia    |
| Julie Ruoho | Teamleader Wet Chem | Administration, Thunder Bay, Ontario |
| Julie Ruoho | Teamleader Wet Chem | Inorganics, Thunder Bay, Ontario     |
| Nik Perkio  | Senior Analyst      | Metals, Waterloo, Ontario            |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description          |
|----------|----------------------|
| -        | no units             |
| °C       | degrees celsius      |
| µg/L     | micrograms per litre |
| mg/L     | milligrams per litre |
| pH units | pH units             |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                       |            |             |           |          |                                             |       |       |       |       |
|---------------------------------------|------------|-------------|-----------|----------|---------------------------------------------|-------|-------|-------|-------|
|                                       |            |             |           |          | 1 - TEEPLE<br>CULVERT_MM_<br>20240604<br>SW | ----  | ----  | ----  | ----  |
|                                       |            |             |           |          | 04-Jun-2024<br>13:15                        | ----  | ----  | ----  | ----  |
| Analyte                               | CAS Number | Method/Lab  | LOR       | Unit     | TY2405844-001                               | ----- | ----- | ----- | ----- |
|                                       |            |             |           |          | Result                                      | ----  | ----  | ----  | ----  |
| Field Tests                           |            |             |           |          |                                             |       |       |       |       |
| Oxygen, dissolved, field              | ----       | EF001/TY    | 0.01      | mg/L     | 7.1                                         | ----  | ----  | ----  | ----  |
| pH, field                             | ----       | EF001/TY    | 0.10      | pH units | 7.47                                        | ----  | ----  | ----  | ----  |
| Temperature, field                    | ----       | EF001/TY    | 0.10      | °C       | 20.7                                        | ----  | ----  | ----  | ----  |
| Anions and Nutrients                  |            |             |           |          |                                             |       |       |       |       |
| Sulfate (as SO4)                      | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L     | 2.30                                        | ----  | ----  | ----  | ----  |
| Total Metals                          |            |             |           |          |                                             |       |       |       |       |
| Mercury, total                        | 7439-97-6  | E508/WT     | 0.0000050 | mg/L     | <0.0000050                                  | ----  | ----  | ----  | ----  |
| Dissolved Metals                      |            |             |           |          |                                             |       |       |       |       |
| Mercury, dissolved                    | 7439-97-6  | E509/WT     | 0.0000050 | mg/L     | <0.0000050                                  | ----  | ----  | ----  | ----  |
| Dissolved mercury filtration location | ----       | EP509/WT    | -         | -        | Field                                       | ----  | ----  | ----  | ----  |
| Speciated Metals                      |            |             |           |          |                                             |       |       |       |       |
| Methylmercury (as MeHg), total        | 22967-92-6 | E536/VA     | 0.000020  | µg/L     | 0.000571                                    | ----  | ----  | ----  | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

TY2405844

CHAIN OF CUSTODY RECORD - ALS-454494000

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2405844**



Telephone : +1 807 623 6463

Project Name: Rainy River  
Location: Chapple  
Project Number:  
Project Manager:  
PO Number:  
Project:  
Turn Around Time (days): 10 Business Days  
Shipping Company:  
Shipping Date: 6/6/2024 9:36:00 AM  
COC Number: ALS-454494000

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| <div>Project Name: Rainy River</div> <div>Location: Chapple</div> <div>Project Number:</div> <div>Project Manager:</div> <div>PO Number:</div> <div>Project:</div> <div>Turn Around Time (days): 10 Business Days</div> <div>Shipping Company:</div> <div>Shipping Date: 6/6/2024 9:36:00 AM</div> <div>COC Number: ALS-454494000</div> |  |  |  |  |  | Containers    |                            |            |               | Mercury - Total and | MeHg Bottle | SW Kit | Ra-226 Bottle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  | Filtered      |                            |            |               | N                   | N           | N      | N             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  | Preservatives |                            |            |               |                     |             |        |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |               |                            |            |               |                     |             |        |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  | HG-TOT_DIS-WT | MEHG-T-GCAF-VA (Methyl Hg) | NG-SW-P-TB | RA226-MMER-BE |                     |             |        |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? Yes X 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  | 6/6/2024 9:36:00 AM   | Method of Shipment: Courier<br>On Ice: yes / no                |  |      |                                                                                                                |
| Received by | AN8 7 June 24 11:10 @ | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |  |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |

6.4 11.7 6.0 10.5 7.8 9.1 7.2 8.8 11.1

# Intake and Login Verification Form

| SAMPLE INTAKE                                                                  |                   |                                     |           |
|--------------------------------------------------------------------------------|-------------------|-------------------------------------|-----------|
| Priority/Emergency Service Requested                                           | YES               | <input checked="" type="radio"/> NO |           |
| Time Sensitive Hold Time                                                       | YES               | <input checked="" type="radio"/> NO |           |
| Client:                                                                        | New Gold          |                                     |           |
| SAMPLE RECEIPT INFORMATION                                                     |                   |                                     |           |
| Mode of Delivery:                                                              | Courier           | Drop Off                            |           |
| Courier                                                                        | Manitaulin        |                                     |           |
| Waybill Number                                                                 |                   |                                     |           |
| Temperature                                                                    |                   | Cooler Count                        | 9         |
| Cooling Method                                                                 | None              | Ice                                 | Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION                                               |                   |                                     |           |
| Matrix:                                                                        | Water             | Soil                                | Air       |
|                                                                                |                   | Biota                               | Other     |
| DW Schedule 24 Bottles Correct?                                                |                   | Yes                                 | No        |
| DW Metals pH Check <2                                                          |                   | Yes                                 | No        |
| Regulation Circled, Works # present                                            | Yes               | No                                  | Reject?   |
| # of Bottles: 3                                                                | Sample Count      |                                     | 1         |
| Green/white                                                                    | 1 wa              |                                     |           |
| Purple/white                                                                   |                   |                                     |           |
| Warm red/white                                                                 |                   |                                     |           |
| Yellow/black                                                                   | 1 Hg 1 Me Hg      |                                     |           |
| Light blue/white                                                               |                   |                                     |           |
| Orange/black                                                                   |                   |                                     |           |
| Others (detail)                                                                |                   |                                     |           |
| Comments on Samples and Bottles:<br>Bottles read "Site 1" - dates + time match |                   |                                     |           |
| Samples Requiring Preservation or Filtering:                                   |                   |                                     |           |
| Layout Staff Initials                                                          | mm 7 June 24 1500 |                                     |           |
| Date and Time of Layout                                                        |                   |                                     |           |

| ACCOUNT INFO VERIFICATION                                        |              |          |
|------------------------------------------------------------------|--------------|----------|
| Priority/Emergency Service Requested                             | YES          | NO       |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |              |          |
| Client                                                           | Work Contact | Quote    |
| RECEIPT DETAIL                                                   |              |          |
| Project                                                          | PO           | Site/LSD |
| Overall Description Entered                                      | Yes          | NA       |
| Received date/time as per COC                                    |              |          |
| Recipients match CoC or Sample Remarks                           | Yes          | No       |
| Billing Instruction added to remarks                             | Yes          | NA       |
| Sample Remarks/Specification Doc checked                         |              |          |
| Submission Issues communicated                                   | Yes          | NA       |
| Sample Info communicated via Remarks                             | Yes          | NA       |
| VERIFICATION CHECKLIST                                           |              |          |
| Planned Event Submission                                         | Yes          | No       |
| Sample Name entered as per CoC                                   |              |          |
| Sampling Date and time entered as per CoC                        |              |          |
| Containers selected in layout order                              |              |          |
| Sales items entered from QUOTE ONLY (and/or verified as correct) |              |          |
| Field Data/EC298A removed if not on COC                          | Yes          | NA       |
| Bottle Allocation Verified                                       |              |          |
| Guideline added or auto-allocated                                |              |          |
| Due dates updated                                                |              |          |
| VALIDATION                                                       |              |          |
| Validation errors resolved?                                      | Yes          | No       |
| Internal Sublet CoC created                                      | Yes          | NA       |
| Login Comments:                                                  |              |          |
| Login Staff Initials:                                            | ANS          |          |

## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2407061                                          | Page                    | : 1 of 7                                              |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                      | Date Samples Received   | : 04-Jul-2024 09:17                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 04-Jul-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 12-Jul-2024 14:21                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 2                                                  |                         |                                                       |
| No. of samples analysed | : 2                                                  |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                               | Laboratory Department                |
|----------------------|----------------------------------------|--------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario     |
| Cassandra Grzelewski | Team Leader - Inorganics               | Metals, Thunder Bay, Ontario         |
| Ghanil Moradiya      | Laboratory Assistant                   | Administration, Thunder Bay, Ontario |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario     |
| Kelly Fischer        | Technical Specialist                   | Inorganics, Waterloo, Ontario        |
| Nik Perkio           | Senior Analyst                         | Inorganics, Waterloo, Ontario        |
| Nik Perkio           | Senior Analyst                         | Metals, Waterloo, Ontario            |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario          |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario         |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                   |
|-----------|-------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                           |
| DTC       | Dissolved concentration exceeds total. Results were confirmed by re-analysis. |



Analytical Results

|                                              |            |              |        |          |                      |                            |                            |       |       |       |
|----------------------------------------------|------------|--------------|--------|----------|----------------------|----------------------------|----------------------------|-------|-------|-------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID     | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW | ----  | ----  | ----  |
| Client sampling date / time                  |            |              |        |          |                      | 02-Jul-2024 11:00          | 02-Jul-2024 10:35          | ----  | ----  | ----  |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2407061-001        | TY2407061-002              | -----                      | ----- | ----- | ----- |
|                                              |            |              |        |          | Result               | Result                     | ----                       | ----  | ----  | ----  |
| Field Tests                                  |            |              |        |          |                      |                            |                            |       |       |       |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 7.41                 | 7.37                       | ----                       | ----  | ----  | ----  |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.06                 | 7.71                       | ----                       | ----  | ----  | ----  |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 15.4                 | 14.5                       | ----                       | ----  | ----  | ----  |
| Physical Tests                               |            |              |        |          |                      |                            |                            |       |       |       |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 2.9                  | 2.7                        | ----                       | ----  | ----  | ----  |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 93.2                 | 87.5                       | ----                       | ----  | ----  | ----  |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 263                  | 248                        | ----                       | ----  | ----  | ----  |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 130                  | 127                        | ----                       | ----  | ----  | ----  |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.98                 | 7.96                       | ----                       | ----  | ----  | ----  |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 198                  | 187                        | ----                       | ----  | ----  | ----  |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | 12.3                 | 7.9                        | ----                       | ----  | ----  | ----  |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 24.9                 | 22.6                       | ----                       | ----  | ----  | ----  |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 114                  | 110                        | ----                       | ----  | ----  | ----  |
| Anions and Nutrients                         |            |              |        |          |                      |                            |                            |       |       |       |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0136 <sup>±T</sup> | 0.0116 <sup>±T</sup>       | ----                       | ----  | ----  | ----  |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010              | <0.0010                    | ----                       | ----  | ----  | ----  |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 6.82                 | 7.57                       | ----                       | ----  | ----  | ----  |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020               | <0.020                     | ----                       | ----  | ----  | ----  |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 0.774                | 0.678                      | ----                       | ----  | ----  | ----  |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.088 <sup>±T</sup>  | 0.044 <sup>±T</sup>        | ----                       | ----  | ----  | ----  |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010               | <0.010                     | ----                       | ----  | ----  | ----  |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0050               | 0.0068                     | ----                       | ----  | ----  | ----  |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 15.8                 | 13.5                       | ----                       | ----  | ----  | ----  |
| Cyanides                                     |            |              |        |          |                      |                            |                            |       |       |       |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020              | <0.0020                    | ----                       | ----  | ----  | ----  |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020              | <0.0020                    | ----                       | ----  | ----  | ----  |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020              | <0.0020                    | ----                       | ----  | ----  | ----  |
| Organic / Inorganic Carbon                   |            |              |        |          |                      |                            |                            |       |       |       |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 24.3                 | 20.9                       | ----                       | ----  | ----  | ----  |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW | ----  | ----  | ---- |
|----------------------------------------------|------------|------------|-----------|------|-------------------|----------------------------|----------------------------|-------|-------|------|
| Client sampling date / time                  |            |            |           |      | 02-Jul-2024 11:00 | 02-Jul-2024 10:35          | ----                       | ----  | ----  |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407061-001     | TY2407061-002              | -----                      | ----- | ----- |      |
|                                              |            |            |           |      | Result            | Result                     | ----                       | ----  | ----  |      |
| Organic / Inorganic Carbon                   |            |            |           |      |                   |                            |                            |       |       |      |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 20.4              | 19.5                       | ----                       | ----  | ----  |      |
| Total Metals                                 |            |            |           |      |                   |                            |                            |       |       |      |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.790             | 0.845                      | ----                       | ----  | ----  |      |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00018 <T        | 0.00015 <T                 | ----                       | ----  | ----  |      |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00110 <T        | 0.00102 <T                 | ----                       | ----  | ----  |      |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0208            | 0.0202                     | ----                       | ----  | ----  |      |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | 0.000044 <T       | 0.000037 <T                | ----                       | ----  | ----  |      |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050         | <0.000050                  | ----                       | ----  | ----  |      |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.018 <T          | 0.018 <T                   | ----                       | ----  | ----  |      |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000202 <T      | 0.0000263 <T               | ----                       | ----  | ----  |      |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 35.5              | 34.2                       | ----                       | ----  | ----  |      |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000117          | 0.000109                   | ----                       | ----  | ----  |      |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00148 <T        | 0.00166 <T                 | ----                       | ----  | ----  |      |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00037 <T        | 0.00040 <T                 | ----                       | ----  | ----  |      |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00254 <T        | 0.00324 <T                 | ----                       | ----  | ----  |      |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.899             | 0.884                      | ----                       | ----  | ----  |      |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000460 <T       | 0.000500 <T                | ----                       | ----  | ----  |      |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0033 <T         | 0.0040 <T                  | ----                       | ----  | ----  |      |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 12.1              | 11.7                       | ----                       | ----  | ----  |      |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0343            | 0.0508                     | ----                       | ----  | ----  |      |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050        | <0.0000050                 | ----                       | ----  | ----  |      |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000831 <T       | 0.000963 <T                | ----                       | ----  | ----  |      |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00209 <T        | 0.00246 <T                 | ----                       | ----  | ----  |      |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050            | <0.050                     | ----                       | ----  | ----  |      |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.79              | 2.01                       | ----                       | ----  | ----  |      |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00326           | 0.00339                    | ----                       | ----  | ----  |      |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000254 <T       | 0.000210 <T                | ----                       | ----  | ----  |      |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 4.57              | 5.24                       | ----                       | ----  | ----  |      |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010         | 0.000010                   | ----                       | ----  | ----  |      |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 3.69              | 3.54                       | ----                       | ----  | ----  |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID            | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW | ----  | ----  | ---- |
|----------------------------------------------|------------|------------|-----------|------|-----------------------------|----------------------------|----------------------------|-------|-------|------|
|                                              |            |            |           |      | Client sampling date / time | 02-Jul-2024 11:00          | 02-Jul-2024 10:35          | ----  | ----  | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407061-001               | TY2407061-002              | -----                      | ----- | ----- |      |
|                                              |            |            |           |      | Result                      | Result                     | ----                       | ----  | ----  |      |
| Total Metals                                 |            |            |           |      |                             |                            |                            |       |       |      |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0813                      | 0.0796                     | ----                       | ----  | ----  |      |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 6.16                        | 5.21                       | ----                       | ----  | ----  |      |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                    | <0.00020                   | ----                       | ----  | ----  |      |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | 0.000013 <sup>&lt;T</sup>   | 0.000011 <sup>&lt;T</sup>  | ----                       | ----  | ----  |      |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | 0.00012                     | <0.00010                   | ----                       | ----  | ----  |      |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                    | <0.00010                   | ----                       | ----  | ----  |      |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.0208                      | 0.0205                     | ----                       | ----  | ----  |      |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                    | <0.00010                   | ----                       | ----  | ----  |      |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000758 <sup>&lt;T</sup>   | 0.000840 <sup>&lt;T</sup>  | ----                       | ----  | ----  |      |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00264                     | 0.00263                    | ----                       | ----  | ----  |      |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0087 <sup>&lt;T</sup>     | 0.0118                     | ----                       | ----  | ----  |      |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00067                     | 0.00051                    | ----                       | ----  | ----  |      |
| Dissolved Metals                             |            |            |           |      |                             |                            |                            |       |       |      |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0634                      | 0.0888                     | ----                       | ----  | ----  |      |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | 0.00015                     | 0.00013                    | ----                       | ----  | ----  |      |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00100                     | 0.00090                    | ----                       | ----  | ----  |      |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0164                      | 0.0155                     | ----                       | ----  | ----  |      |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                   | <0.000020                  | ----                       | ----  | ----  |      |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                   | <0.000050                  | ----                       | ----  | ----  |      |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.019                       | 0.018                      | ----                       | ----  | ----  |      |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000096                   | 0.0000107                  | ----                       | ----  | ----  |      |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 32.8                        | 32.3                       | ----                       | ----  | ----  |      |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                   | <0.000010                  | ----                       | ----  | ----  |      |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                    | <0.00050                   | ----                       | ----  | ----  |      |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00012                     | 0.00012                    | ----                       | ----  | ----  |      |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00166                     | 0.00218                    | ----                       | ----  | ----  |      |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.126                       | 0.119                      | ----                       | ----  | ----  |      |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000103                    | 0.000094                   | ----                       | ----  | ----  |      |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0030                      | 0.0034                     | ----                       | ----  | ----  |      |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 11.8                        | 11.3                       | ----                       | ----  | ----  |      |





Analytical Results

|                                              |            |            |           |      |                        |                            |                            |       |       |       |
|----------------------------------------------|------------|------------|-----------|------|------------------------|----------------------------|----------------------------|-------|-------|-------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID       | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW | ----  | ----  | ----  |
| Client sampling date / time                  |            |            |           |      |                        | 02-Jul-2024 11:00          | 02-Jul-2024 10:35          | ----  | ----  | ----  |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407061-001          | TY2407061-002              | -----                      | ----- | ----- | ----- |
|                                              |            |            |           |      | Result                 | Result                     | ----                       | ----  | ----  | ----  |
| Dissolved Metals                             |            |            |           |      |                        |                            |                            |       |       |       |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0165                 | 0.0207                     | ----                       | ----  | ----  | ----  |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050             | <0.0000050                 | ----                       | ----  | ----  | ----  |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000829               | 0.000894                   | ----                       | ----  | ----  | ----  |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00130                | 0.00132                    | ----                       | ----  | ----  | ----  |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050                 | <0.050                     | ----                       | ----  | ----  | ----  |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.68                   | 1.85                       | ----                       | ----  | ----  | ----  |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00128                | 0.00135                    | ----                       | ----  | ----  | ----  |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000273               | 0.000284                   | ----                       | ----  | ----  | ----  |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 2.83                   | 3.46                       | ----                       | ----  | ----  | ----  |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010              | <0.000010                  | ----                       | ----  | ----  | ----  |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 3.78                   | 3.39                       | ----                       | ----  | ----  | ----  |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0844                 | 0.0796                     | ----                       | ----  | ----  | ----  |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 6.06                   | 5.08                       | ----                       | ----  | ----  | ----  |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020               | <0.00020                   | ----                       | ----  | ----  | ----  |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010              | <0.000010                  | ----                       | ----  | ----  | ----  |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010               | <0.00010                   | ----                       | ----  | ----  | ----  |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010               | <0.00010                   | ----                       | ----  | ----  | ----  |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00643                | 0.00783                    | ----                       | ----  | ----  | ----  |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | 0.00023 <sup>OTC</sup> | 0.00020                    | ----                       | ----  | ----  | ----  |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000719               | 0.000791                   | ----                       | ----  | ----  | ----  |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | 0.00085                | 0.00086                    | ----                       | ----  | ----  | ----  |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0045                 | 0.0071                     | ----                       | ----  | ----  | ----  |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | 0.00068                | 0.00068                    | ----                       | ----  | ----  | ----  |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                  | Field                      | ----                       | ----  | ----  | ----  |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                  | Field                      | ----                       | ----  | ----  | ----  |
| Aggregate Organics                           |            |            |           |      |                        |                            |                            |       |       |       |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                   | <2.0                       | ----                       | ----  | ----  | ----  |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10        | mg/L | 50                     | 43                         | ----                       | ----  | ----  | ----  |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0       | mg/L | ----                   | <1.0                       | ----                       | ----  | ----  | ----  |

Page : 7 of 7  
Work Order : TY2407061  
Client : New Gold Inc. (Rainy River)  
Project : Surface Water

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Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 07 /03/2024 9:00:00 AM<br><b>COC Number:</b> ALS- |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Not Filtered</b><br><br><b>Preservatives</b> |  |  |  |  |  | SW KIT |  |  |  |  |    |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|--------------------------------------------------------------------------|--|--|--|--|--|--------|--|--|--|--|----|--|--|--|--|--|
|                                                                                                                                                                                                                                                                                                                      |                               |                     |                 |                  |        | Y                                                                        |  |  |  |  |  |        |  |  |  |  |    |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                      |                               |                     |                 |                  |        | Y                                                                        |  |  |  |  |  |        |  |  |  |  |    |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                      |                               |                     |                 |                  |        |                                                                          |  |  |  |  |  |        |  |  |  |  |    |  |  |  |  |  |
| TY2407061                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        |                                                                          |  |  |  |  |  |        |  |  |  |  |    |  |  |  |  |  |
| Sample Code                                                                                                                                                                                                                                                                                                          | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix |                                                                          |  |  |  |  |  |        |  |  |  |  |    |  |  |  |  |  |
| SW25                                                                                                                                                                                                                                                                                                                 | 7.41                          | 9.06                | 15.42           | 2024-07-02 11:00 | SW     | x                                                                        |  |  |  |  |  |        |  |  |  |  | 11 |  |  |  |  |  |
| SW26                                                                                                                                                                                                                                                                                                                 | 7.37                          | 7.71                | 14.49           | 2024-07-02 10:35 | SW     | x                                                                        |  |  |  |  |  |        |  |  |  |  | 11 |  |  |  |  |  |

|             |  |                 |                                                                                                                     |  |      |                                                                                                                   |
|-------------|--|-----------------|---------------------------------------------------------------------------------------------------------------------|--|------|-------------------------------------------------------------------------------------------------------------------|
| Signature   |  | Date/Time       | Shipping Details                                                                                                    |  | ATTN | Special Instructions:                                                                                             |
| Shipped by  |  | 2024-07-03 9:00 | Method of Shipment: Courier                                                                                         |  |      |                                                                                                                   |
| Received by |  | Ac              | On Ice: yes / <input checked="" type="radio"/> no<br>Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |  |      | Email Invoice to:<br>rainyriver.accounts1@newgold.co<br>Email Report to:<br>rainyriver.labresults@newgold.co<br>m |

Temp- 13.4, 18.8, 13.9, 12.9, 11.8, 17.5, 17.8, 17.7

5x + 3 pails

Mantoulin

Environmental Division  
Thunder Bay

Work Order Reference

TY2407061



Telephone : +1 807 623 6463

# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                |              |           | ACCOUNT INFO VERIFICATION                                  |              |          |  |
|----------------------------------------------|--------------------------------|--------------|-----------|------------------------------------------------------------|--------------|----------|--|
| Priority/Emergency Service Requested         | YES                            | NO           |           | Priority/Emergency Service Requested                       | YES          | NO       |  |
| Time Sensitive Hold Time                     | YES                            | NO           |           | Confirmed all as accurate as per COC, Sample Remarks or PM |              |          |  |
| Client:                                      | Newbold - Rainy River          |              |           | Client                                                     | Work Contact | Quote    |  |
| SAMPLE RECEIPT INFORMATION                   |                                |              |           | RECEIPT DETAIL                                             |              |          |  |
| Mode of Delivery:                            | Courier                        | Drop Off     |           | Project                                                    | PO           | Site/LSD |  |
| Courier                                      | Marlowin                       |              |           | Overall Description Entered                                | Yes          | NA       |  |
| Waybill Number                               | 3303206500                     |              |           | Received date/time as per COC                              |              |          |  |
| Temperature 13.4, 18.8, 13.9, 12.9, 11.8     | Cooler Count                   |              | 5+3pals.  | Recipients match CoC or Sample Remarks                     | Yes          | No       |  |
| Cooling Method                               | None                           | Ice          | Ice Packs | Billing Instruction added to remarks                       | Yes          | NA       |  |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                |              |           | VERIFICATION CHECKLIST                                     |              |          |  |
| Matrix:                                      | Water                          | Soil         | Air       | Biota                                                      | Other        |          |  |
| DW Schedule 24 Bottles Correct?              |                                |              | Yes       | NO                                                         |              |          |  |
| DW Metals pH Check <2                        |                                |              | Yes       | No                                                         |              |          |  |
| Regulation Circled, Works # present          | Yes                            | No           |           | Reject?                                                    |              |          |  |
| # of Bottles:                                | 11                             | Sample Count | 2         |                                                            |              |          |  |
| Green/white                                  | 2R, 2BOD                       |              |           |                                                            |              |          |  |
| Purple/white                                 | 2 NUTS, 2 TOC, 2 DOC           |              |           |                                                            |              |          |  |
| Warm red/white                               | 2 TOT METALS, 2 DISS METALS    |              |           |                                                            |              |          |  |
| Yellow/black                                 | 2 TOT Hg, 2 DISS Hg, 2 X 2 OUG |              |           |                                                            |              |          |  |
| Light blue/white                             |                                |              |           |                                                            |              |          |  |
| Orange/black                                 |                                |              |           |                                                            |              |          |  |
| Others (detail)                              | 2 CYANIDE                      |              |           |                                                            |              |          |  |
| Comments on Samples and Bottles:             |                                |              |           |                                                            |              |          |  |
| Samples Requiring Preservation or Filtering: |                                |              |           |                                                            |              |          |  |
| Layout Staff Initials                        | AC                             |              |           |                                                            |              |          |  |
| Date and Time of Layout                      | 07-04-24 / 1:32                |              |           |                                                            |              |          |  |
| Login Staff Initials:                        |                                |              |           | APS                                                        |              |          |  |

## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2407459                                          | Page                    | : 1 of 22                                             |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                      | Date Samples Received   | : 12-Jul-2024 09:13                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 12-Jul-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 14-Aug-2024 11:19                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 20                                                 |                         |                                                       |
| No. of samples analysed | : 20                                                 |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                               | Laboratory Department                            |
|----------------------|----------------------------------------|--------------------------------------------------|
| Aaron Jaurigue       | Analyst                                | Metals, Burnaby, British Columbia                |
| Cassandra Grzelewski | Team Leader - Inorganics               | Administration, Thunder Bay, Ontario             |
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics               | Metals, Thunder Bay, Ontario                     |
| Greg Pokocky         | Manager - Inorganics                   | Inorganics, Waterloo, Ontario                    |
| Greg Pokocky         | Manager - Inorganics                   | Metals, Waterloo, Ontario                        |
| Julie Ruoho          | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Manuel TavaraTello   | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Nik Perkio           | Senior Analyst                         | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Senior Analyst                         | Metals, Waterloo, Ontario                        |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario                     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µg/L     | micrograms per litre            |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| 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.                          |
| RRV       | Reported result verified by repeat analysis.                                                           |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        | Client sample ID            | SW16_SW_202<br>40702<br>SW | SW17_SW_202<br>40702<br>SW | SW15_SW_202<br>40702<br>SW | FB_SW_202407<br>02<br>SW | SW23_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|--------------|--------|-----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
|                                              |            |              |        | Client sampling date / time | 09-Jul-2024 10:10          | 09-Jul-2024 11:10          | 09-Jul-2024 11:50          | 09-Jul-2024 12:00        | 09-Jul-2024 12:25          |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit                        | TY2407459-001              | TY2407459-002              | TY2407459-003              | TY2407459-004            | TY2407459-005              |
|                                              |            |              |        |                             | Result                     | Result                     | Result                     | Result                   | Result                     |
| Field Tests                                  |            |              |        |                             |                            |                            |                            |                          |                            |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L                        | 4.94                       | 3.09                       | 2.27                       | ----                     | 3.23                       |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units                    | 7.06                       | 7.15                       | 7.29                       | ----                     | 7.25                       |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C                          | 20.4                       | 21.0                       | 22.2                       | ----                     | 21.8                       |
| Physical Tests                               |            |              |        |                             |                            |                            |                            |                          |                            |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L                        | 2.1                        | 2.6                        | 3.1                        | <2.0                     | 3.2                        |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU                          | 68.9                       | 110                        | 326                        | <2.0                     | 310                        |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm                       | 66.7                       | 76.8                       | 167                        | 1.3                      | 179                        |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L                        | 30.1                       | 37.4                       | 99.1                       | <0.50                    | 108                        |
| pH                                           | ----       | E108/TY      | 0.10   | pH units                    | 7.50                       | 7.50                       | 7.82                       | 5.98                     | 7.82                       |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L                        | 52                         | 65                         | 168                        | <10                      | 183                        |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L                        | <3.0                       | 3.8                        | 5.4                        | <3.0                     | 7.6                        |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU                         | 3.10                       | 2.80                       | 8.52                       | <0.10                    | 6.26                       |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L                        | 28.2                       | 33.8                       | 84.5                       | <2.0                     | 91.0                       |
| Anions and Nutrients                         |            |              |        |                             |                            |                            |                            |                          |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L                        | 0.0140 <sup>&lt;T</sup>    | 0.0151 <sup>&lt;T</sup>    | 0.0386 <sup>&lt;T</sup>    | <0.0050                  | 0.0360 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L                        | <0.0010                    | <0.0010                    | <0.0010                    | ----                     | <0.0010                    |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L                        | 1.71                       | 1.71                       | 1.69                       | <0.10                    | 2.05                       |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L                        | 0.033                      | 0.034                      | 0.042                      | <0.020                   | 0.046                      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L                        | 0.594                      | 0.689                      | 1.46                       | <0.050                   | 1.48                       |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L                        | <0.020                     | <0.020                     | 0.021 <sup>&lt;T</sup>     | <0.020                   | <0.020                     |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L                        | <0.010                     | <0.010                     | <0.010                     | <0.010                   | <0.010                     |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L                        | 0.0017                     | 0.0028                     | 0.0292                     | <0.0010                  | 0.0429                     |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L                        | 2.25                       | 1.98                       | 2.46                       | <0.30                    | 0.97                       |
| Cyanides                                     |            |              |        |                             |                            |                            |                            |                          |                            |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L                        | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L                        | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L                        | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    |
| Organic / Inorganic Carbon                   |            |              |        |                             |                            |                            |                            |                          |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L                        | 14.2                       | 20.8                       | 45.6                       | <0.50                    | 48.4                       |



Analytical Results

Sub-Matrix: Surface Water

Client sample ID

(Matrix: Water)

|                             |            |            |           |      | SW16_SW_202<br>40702<br>SW | SW17_SW_202<br>40702<br>SW | SW15_SW_202<br>40702<br>SW | FB_SW_202407<br>02<br>SW     | SW23_SW_202<br>40702<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 09-Jul-2024 10:10          | 09-Jul-2024 11:10          | 09-Jul-2024 11:50          | 09-Jul-2024 12:00            | 09-Jul-2024 12:25          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2407459-001              | TY2407459-002              | TY2407459-003              | TY2407459-004                | TY2407459-005              |
|                             |            |            |           |      | Result                     | Result                     | Result                     | Result                       | Result                     |
| Organic / Inorganic Carbon  |            |            |           |      |                            |                            |                            |                              |                            |
| Carbon, total organic [TOC] | ----       | E355-L/WT  | 0.50      | mg/L | 13.9                       | 18.8                       | 46.0                       | <0.50                        | 44.8                       |
| Total Metals                |            |            |           |      |                            |                            |                            |                              |                            |
| Aluminum, total             | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.148                      | 0.151                      | 0.0914                     | 0.0040 <sup>&lt;T, RRV</sup> | 0.344                      |
| Antimony, total             | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                     | <0.00010                   |
| Arsenic, total              | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00059 <sup>&lt;T</sup>   | 0.00078 <sup>&lt;T</sup>   | 0.00173 <sup>&lt;T</sup>   | <0.00010                     | 0.00205 <sup>&lt;T</sup>   |
| Barium, total               | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0103                     | 0.0113                     | 0.0163                     | 0.00031 <sup>RRV</sup>       | 0.0182                     |
| Beryllium, total            | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                  | <0.000020                  | <0.000020                  | <0.000020                    | 0.000024 <sup>&lt;T</sup>  |
| Bismuth, total              | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                    | <0.000050                  |
| Boron, total                | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010                     | <0.010                     | 0.016 <sup>&lt;T</sup>     | <0.010                       | 0.015 <sup>&lt;T</sup>     |
| Cadmium, total              | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000104 <sup>&lt;T</sup> | 0.0000073 <sup>&lt;T</sup> | 0.0000146 <sup>&lt;T</sup> | <0.0000050                   | 0.0000167 <sup>&lt;T</sup> |
| Calcium, total              | 7440-70-2  | E420/TY    | 0.050     | mg/L | 8.12                       | 9.69                       | 24.5                       | 0.067 <sup>RRV</sup>         | 27.2                       |
| Cesium, total               | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000021                   | 0.000019                   | <0.000010                  | <0.000010                    | 0.000039                   |
| Chromium, total             | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00052 <sup>&lt;T</sup>   | 0.00050                    | <0.00050                   | <0.00050                     | 0.00086 <sup>&lt;T</sup>   |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00012 <sup>&lt;T</sup>   | 0.00013 <sup>&lt;T</sup>   | 0.00020 <sup>&lt;T</sup>   | <0.00010                     | 0.00046 <sup>&lt;T</sup>   |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00153 <sup>&lt;T</sup>   | 0.00142 <sup>&lt;T</sup>   | 0.00121 <sup>&lt;T</sup>   | <0.00050                     | 0.00120 <sup>&lt;T</sup>   |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.301                      | 0.371                      | 0.525                      | <0.010                       | 1.02                       |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000129 <sup>&lt;T</sup>  | 0.000128 <sup>&lt;T</sup>  | 0.000153 <sup>&lt;T</sup>  | <0.000050                    | 0.000279 <sup>&lt;T</sup>  |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0010                     | 0.0011 <sup>&lt;T</sup>    | 0.0038 <sup>&lt;T</sup>    | <0.0010                      | 0.0034 <sup>&lt;T</sup>    |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 2.92                       | 3.72                       | 10.5                       | 0.0232 <sup>RRV</sup>        | 11.0                       |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0166                     | 0.0270                     | 0.0450                     | 0.00018 <sup>RRV</sup>       | 0.0958                     |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                   | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000122 <sup>&lt;T</sup>  | 0.000147 <sup>&lt;T</sup>  | 0.000366 <sup>&lt;T</sup>  | <0.000050                    | 0.000340 <sup>&lt;T</sup>  |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00092 <sup>&lt;T</sup>   | 0.00101 <sup>&lt;T</sup>   | 0.00168 <sup>&lt;T</sup>   | <0.00050                     | 0.00209 <sup>&lt;T</sup>   |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                     | <0.050                     | 0.056                      | <0.050                       | 0.075                      |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.744                      | 0.736                      | 0.772                      | <0.050                       | 0.683                      |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00189                    | 0.00185                    | 0.00105                    | <0.00020                     | 0.00186                    |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000171 <sup>&lt;T</sup>  | 0.000139 <sup>&lt;T</sup>  | 0.000211 <sup>&lt;T</sup>  | <0.000050                    | 0.000237 <sup>&lt;T</sup>  |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L | 2.28                       | 2.51                       | 3.86                       | 0.18 <sup>RRV</sup>          | 4.40                       |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                    | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 2.25                       | 2.21                       | 2.27                       | 0.198 <sup>RRV</sup>         | 2.54                       |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                             |            |            |           |      | SW16_SW_202<br>40702<br>SW | SW17_SW_202<br>40702<br>SW | SW15_SW_202<br>40702<br>SW | FB_SW_202407<br>02<br>SW       | SW23_SW_202<br>40702<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------------|----------------------------|----------------------------|--------------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 09-Jul-2024 10:10          | 09-Jul-2024 11:10          | 09-Jul-2024 11:50          | 09-Jul-2024 12:00              | 09-Jul-2024 12:25          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2407459-001              | TY2407459-002              | TY2407459-003              | TY2407459-004                  | TY2407459-005              |
|                             |            |            |           |      | Result                     | Result                     | Result                     | Result                         | Result                     |
| Total Metals                |            |            |           |      |                            |                            |                            |                                |                            |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0238                     | 0.0261                     | 0.0536                     | 0.00022 <sup>&lt; T, RRV</sup> | 0.0622                     |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 0.84                       | 0.74                       | 1.37                       | <0.50                          | 0.85                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                       | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                      | <0.000010                  |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                       | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                   | <0.00010                   | 0.00120 <sup>RRV</sup>         | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00473                    | 0.00445                    | 0.00327                    | <0.00030                       | 0.0111                     |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                       | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000102 <sup>&lt; T</sup> | 0.000113 <sup>&lt; T</sup> | 0.000411 <sup>&lt; T</sup> | <0.000010                      | 0.000274 <sup>&lt; T</sup> |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00077                    | 0.00082                    | 0.00130                    | <0.00050                       | 0.00182                    |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                    | <0.0030                    | <0.0030                    | <0.0030                        | 0.0032 <sup>&lt; T</sup>   |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00026                    | 0.00027                    | 0.00048                    | <0.00020                       | 0.00060                    |
| Dissolved Metals            |            |            |           |      |                            |                            |                            |                                |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0349                     | 0.0443                     | 0.187                      | 0.0039                         | 0.0707                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                       | <0.00010                   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00050                    | 0.00068                    | 0.00160                    | <0.00010                       | 0.00190                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00878                    | 0.00934                    | 0.0162                     | 0.00028                        | 0.0156                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                  | <0.000020                  | <0.000040 <sup>DLM</sup>   | <0.000020                      | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                  | <0.000050                  | <0.000100 <sup>DLM</sup>   | <0.000050                      | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                     | <0.010                     | <0.020 <sup>DLM</sup>      | <0.010                         | 0.016                      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000068                  | 0.0000068                  | 0.0000136                  | <0.0000050                     | 0.0000107                  |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 7.61                       | 9.48                       | 23.2                       | 0.051                          | 25.8                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                  | 0.000020                   | <0.000010                      | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                   | <0.00050                   | <0.00100 <sup>DLM</sup>    | <0.00050                       | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                   | 0.00027                    | <0.00010                       | 0.00028                    |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00111                    | 0.00107                    | 0.00128                    | <0.00020                       | 0.00084                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.127                      | 0.180                      | 0.631                      | <0.010                         | 0.609                      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050                  | 0.000056                   | 0.000241                   | <0.000050                      | 0.000115                   |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0012                     | 0.0013                     | 0.0043                     | <0.0010                        | 0.0040                     |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 2.70                       | 3.34                       | 10.0                       | 0.0188                         | 10.5                       |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | SW16_SW_202<br>40702<br>SW | SW17_SW_202<br>40702<br>SW | SW15_SW_202<br>40702<br>SW | FB_SW_202407<br>02<br>SW | SW23_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 09-Jul-2024 10:10 | 09-Jul-2024 11:10          | 09-Jul-2024 11:50          | 09-Jul-2024 12:00          | 09-Jul-2024 12:25        |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407459-001     | TY2407459-002              | TY2407459-003              | TY2407459-004              | TY2407459-005            |                            |
|                                              |            |            |           |      | Result            | Result                     | Result                     | Result                     | Result                   |                            |
| Dissolved Metals                             |            |            |           |      |                   |                            |                            |                            |                          |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.00569           | 0.0150                     | 0.0537                     | 0.00012                    | 0.0806                   |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050        | <0.0000050                 | 0.0000066                  | <0.0000050                 | <0.0000050               |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000113          | 0.000149                   | 0.000322                   | <0.000050                  | 0.000318                 |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00069           | 0.00086                    | 0.00167                    | <0.00050                   | 0.00159                  |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050            | <0.050                     | <0.100 <sup>DLM</sup>      | <0.050                     | 0.052                    |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.701             | 0.690                      | 0.767                      | <0.050                     | 0.608                    |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00148           | 0.00146                    | 0.00135                    | <0.00020                   | 0.00112                  |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000138          | 0.000107                   | 0.000200                   | <0.000050                  | 0.000248                 |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 2.03              | 2.30                       | 4.07                       | 0.171                      | 3.86                     |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010         | <0.000010                  | <0.000020 <sup>DLM</sup>   | <0.000010                  | <0.000010                |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 2.28              | 2.04                       | 2.19                       | 0.191                      | 2.47                     |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0222            | 0.0250                     | 0.0508                     | 0.00020                    | 0.0594                   |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 0.84              | 0.79                       | 1.20                       | <0.50                      | 0.74                     |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020          | <0.00020                   | <0.00040 <sup>DLM</sup>    | <0.00020                   | <0.00020                 |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010         | <0.000010                  | <0.000020 <sup>DLM</sup>   | <0.000010                  | <0.000010                |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                 |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                   | <0.00020 <sup>DLM</sup>    | 0.00212 <sup>DTC</sup>     | <0.00010                 |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00126           | 0.00159                    | 0.00745 <sup>DTC</sup>     | <0.00030                   | 0.00205                  |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                 |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000080          | 0.000092                   | 0.000352                   | <0.000010                  | 0.000221                 |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050          | <0.00050                   | 0.00144                    | <0.00050                   | 0.00098                  |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0016            | 0.0015                     | 0.0025                     | <0.0010                    | 0.0015                   |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030          | <0.00030                   | 0.00069                    | <0.00030                   | 0.00044                  |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field             | Field                      | Field                      | N/A                        | Field                    |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field             | Field                      | Field                      | Field                      | Field                    |                            |
| Aggregate Organics                           |            |            |           |      |                   |                            |                            |                            |                          |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0              | <2.0                       | <2.0                       | <2.0                       | <2.0                     |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10        | mg/L | 39                | 50                         | 115                        | <10                        | 121                      |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0       | mg/L | <1.0              | <1.0                       | <1.0                       | <1.0                       | <1.0                     |                            |
| Radiological Parameters                      |            |            |           |      |                   |                            |                            |                            |                          |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                         |            |            |       |      | Client sample ID            | SW16_SW_202<br>40702<br>SW | SW17_SW_202<br>40702<br>SW | SW15_SW_202<br>40702<br>SW | FB_SW_202407<br>02<br>SW | SW23_SW_202<br>40702<br>SW |
|-------------------------|------------|------------|-------|------|-----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|
|                         |            |            |       |      | Client sampling date / time | 09-Jul-2024 10:10          | 09-Jul-2024 11:10          | 09-Jul-2024 11:50          | 09-Jul-2024 12:00        | 09-Jul-2024 12:25          |
| Analyte                 | CAS Number | Method/Lab | LOR   | Unit |                             | TY2407459-001              | TY2407459-002              | TY2407459-003              | TY2407459-004            | TY2407459-005              |
|                         |            |            |       |      |                             | Result                     | Result                     | Result                     | Result                   | Result                     |
| Radiological Parameters |            |            |       |      |                             |                            |                            |                            |                          |                            |
| Radium-226              | 13982-63-3 | Ra-226/21  | 0.005 | Bq/L |                             | ----                       | ----                       | ----                       | ----                     | 0.006                      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID            | SW24_SW_202<br>40702<br>SW | SW29A_SW_20<br>240702<br>SW | SW03_SW_202<br>40702<br>SW | 1 - TEEPLE<br>CULVERT_MM_<br>20240703<br>SW | SW20_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|--------------|--------|----------|-----------------------------|----------------------------|-----------------------------|----------------------------|---------------------------------------------|----------------------------|
|                                              |            |              |        |          | Client sampling date / time | 09-Jul-2024 12:40          | 09-Jul-2024 13:05           | 09-Jul-2024 14:30          | 10-Jul-2024 00:00                           | 10-Jul-2024 09:15          |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2407459-006               | TY2407459-007              | TY2407459-008               | TY2407459-009              | TY2407459-010                               |                            |
|                                              |            |              |        |          | Result                      | Result                     | Result                      | Result                     | Result                                      |                            |
| Field Tests                                  |            |              |        |          |                             |                            |                             |                            |                                             |                            |
| Oxygen, dissolved, field                     | ---        | EF001/TY     | 0.01   | mg/L     | 3.4                         | 1.59                       | 2.15                        | ----                       | 2.99                                        |                            |
| pH, field                                    | ---        | EF001/TY     | 0.10   | pH units | 7.27                        | 7.02                       | 7.37                        | ----                       | 7.08                                        |                            |
| Temperature, field                           | ---        | EF001/TY     | 0.10   | °C       | 22.0                        | 22.9                       | 22.9                        | ----                       | 20.5                                        |                            |
| Physical Tests                               |            |              |        |          |                             |                            |                             |                            |                                             |                            |
| Acidity (as CaCO3)                           | ---        | E283/TY      | 2.0    | mg/L     | 2.9                         | 2.4                        | 2.3                         | ----                       | <2.0                                        |                            |
| Colour, true                                 | ---        | E329-L/TY    | 2.0    | CU       | 323                         | 144                        | 223                         | ----                       | 180                                         |                            |
| Conductivity                                 | ---        | E100/TY      | 1.0    | µS/cm    | 178                         | 196                        | 229                         | ----                       | 240                                         |                            |
| Hardness (as CaCO3), dissolved               | ---        | EC100/TY     | 0.50   | mg/L     | 106                         | 116                        | 127                         | ----                       | 120                                         |                            |
| pH                                           | ---        | E108/TY      | 0.10   | pH units | 7.83                        | 7.93                       | 7.96                        | ----                       | 7.93                                        |                            |
| Solids, total dissolved [TDS]                | ---        | E162/TY      | 10     | mg/L     | 166                         | 147                        | 194                         | ----                       | 186                                         |                            |
| Solids, total suspended [TSS]                | ---        | E160/TY      | 3.0    | mg/L     | 10.0                        | <3.0                       | 4.6                         | ----                       | <3.0                                        |                            |
| Turbidity                                    | ---        | E121/TY      | 0.10   | NTU      | 5.16                        | 0.72                       | 3.20                        | ----                       | 1.49                                        |                            |
| Alkalinity, total (as CaCO3)                 | ---        | E290/TY      | 2.0    | mg/L     | 90.0                        | 108                        | 114                         | ----                       | 109                                         |                            |
| Anions and Nutrients                         |            |              |        |          |                             |                            |                             |                            |                                             |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0375 <sup>&lt;T</sup>     | 0.0234 <sup>&lt;T</sup>    | 0.0539 <sup>&lt;T</sup>     | ----                       | 0.0294 <sup>&lt;T</sup>                     |                            |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                     | <0.0010                    | <0.0010                     | ----                       | <0.0010                                     |                            |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 2.04                        | 0.15                       | 5.52                        | ----                       | 12.3                                        |                            |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.045                       | 0.049                      | 0.049                       | ----                       | 0.048                                       |                            |
| Kjeldahl nitrogen, total [TKN]               | ---        | E318/TY      | 0.050  | mg/L     | 1.50                        | 1.21                       | 1.53                        | ----                       | 1.28                                        |                            |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                      | <0.020                     | <0.020                      | ----                       | <0.020                                      |                            |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                      | <0.010                     | <0.010                      | ----                       | <0.010                                      |                            |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0420                      | 0.0125                     | 0.0634                      | ----                       | 0.0327                                      |                            |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 0.96                        | <0.30                      | 1.88                        | ----                       | 0.33                                        |                            |
| Cyanides                                     |            |              |        |          |                             |                            |                             |                            |                                             |                            |
| Cyanide, free                                | ---        | E339/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                     | ----                       | <0.0020                                     |                            |
| Cyanide, strong acid dissociable (Total)     | ---        | E333/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                     | ----                       | <0.0020                                     |                            |
| Cyanide, weak acid dissociable               | ---        | E336/WT      | 0.0020 | mg/L     | <0.0020                     | <0.0020                    | <0.0020                     | ----                       | <0.0020                                     |                            |
| Organic / Inorganic Carbon                   |            |              |        |          |                             |                            |                             |                            |                                             |                            |
| Carbon, dissolved organic [DOC]              | ---        | E358-L/WT    | 0.50   | mg/L     | 48.8                        | 33.9                       | 41.1                        | ----                       | 35.7                                        |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | SW24_SW_202<br>40702<br>SW | SW29A_SW_20<br>240702<br>SW | SW03_SW_202<br>40702<br>SW | 1 - TEEPLE<br>CULVERT_MM_<br>20240703<br>SW | SW20_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------|----------------------------|-----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 09-Jul-2024 12:40 | 09-Jul-2024 13:05          | 09-Jul-2024 14:30           | 10-Jul-2024 00:00          | 10-Jul-2024 09:15                           |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407459-006     | TY2407459-007              | TY2407459-008               | TY2407459-009              | TY2407459-010                               |                            |
|                                              |            |            |           |      | Result            | Result                     | Result                      | Result                     | Result                                      |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                   |                            |                             |                            |                                             |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 45.6              | 30.5                       | 44.4                        | ----                       | 32.3                                        |                            |
| Total Metals                                 |            |            |           |      |                   |                            |                             |                            |                                             |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.376             | 0.0210 <T                  | 0.254                       | ----                       | 0.0748                                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                   | 0.00011 <T                  | ----                       | <0.00010                                    |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00204 <T        | 0.00137 <T                 | 0.00194 <T                  | ----                       | 0.00165 <T                                  |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0187            | 0.0131                     | 0.0199                      | ----                       | 0.0158                                      |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | 0.000024 <T       | <0.000020                  | 0.000020                    | ----                       | <0.000020                                   |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050         | <0.000050                  | <0.000050                   | ----                       | <0.000050                                   |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.015 <T          | 0.013 <T                   | 0.018 <T                    | ----                       | 0.016 <T                                    |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000168 <T      | <0.0000050                 | 0.0000147 <T                | ----                       | 0.0000063 <T                                |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 27.0              | 28.4                       | 34.2                        | ----                       | 30.4                                        |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000048          | <0.000010                  | 0.000036                    | ----                       | <0.000010                                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | 0.00085 <T        | <0.00050                   | 0.00066 <T                  | ----                       | <0.00050                                    |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00049 <T        | 0.00029 <T                 | 0.00037 <T                  | ----                       | 0.00028 <T                                  |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00124 <T        | <0.00050                   | 0.00192 <T                  | ----                       | 0.00058 <T                                  |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 1.05              | 0.539                      | 0.805                       | ----                       | 0.635                                       |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000321 <T       | <0.000050                  | 0.000209 <T                 | ----                       | 0.000073 <T                                 |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0035 <T         | 0.0030 <T                  | 0.0041 <T                   | ----                       | 0.0034 <T                                   |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 11.2              | 11.6                       | 12.2                        | ----                       | 12.6                                        |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.100             | 0.0829                     | 0.0723                      | ----                       | 0.0850                                      |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050        | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050                                  |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000346 <T       | 0.000363 <T                | 0.000425 <T                 | ----                       | 0.000335 <T                                 |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00211 <T        | 0.00136 <T                 | 0.00231 <T                  | ----                       | 0.00171 <T                                  |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | 0.080             | <0.050                     | 0.111                       | ----                       | 0.063                                       |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.687             | 0.171                      | 0.984                       | ----                       | 0.588                                       |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00196           | 0.00041                    | 0.00204                     | ----                       | 0.00132                                     |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000256 <T       | 0.000232 <T                | 0.000260 <T                 | ----                       | 0.000262 <T                                 |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 4.52              | 3.98                       | 4.72                        | ----                       | 3.85                                        |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010         | 0.000017 <T                | <0.000010                   | ----                       | <0.000010                                   |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW24_SW_202<br>40702<br>SW | SW29A_SW_20<br>240702<br>SW | SW03_SW_202<br>40702<br>SW | 1 - TEEPLE<br>CULVERT_MM_<br>20240703<br>SW | SW20_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|-----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 09-Jul-2024 12:40         | 09-Jul-2024 13:05          | 09-Jul-2024 14:30           | 10-Jul-2024 00:00          | 10-Jul-2024 09:15                           |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407459-006             | TY2407459-007              | TY2407459-008               | TY2407459-009              | TY2407459-010                               |                            |
|                                              |            |            |           |      | Result                    | Result                     | Result                      | Result                     | Result                                      |                            |
| Total Metals                                 |            |            |           |      |                           |                            |                             |                            |                                             |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 2.62                      | 1.30                       | 4.27                        | ----                       | 8.41                                        |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0604                    | 0.0617                     | 0.0774                      | ----                       | 0.0707                                      |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 0.84                      | <0.50                      | 1.26                        | ----                       | <0.50                                       |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                    | ----                       | <0.00020                                    |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                   | ----                       | <0.000010                                   |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                    | ----                       | <0.00010                                    |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                    | ----                       | <0.00010                                    |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.0128                    | <0.00105 <sup>DLM</sup>    | 0.00852                     | ----                       | 0.00267                                     |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                    | ----                       | <0.00010                                    |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000280 <sup>&lt;T</sup> | 0.000128 <sup>&lt;T</sup>  | 0.000367 <sup>&lt;T</sup>   | ----                       | 0.000202 <sup>&lt;T</sup>                   |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00186                   | 0.00053                    | 0.00162                     | ----                       | 0.00087                                     |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0033 <sup>&lt;T</sup>   | <0.0030                    | <0.0030                     | ----                       | <0.0030                                     |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00061                   | 0.00023                    | 0.00048                     | ----                       | 0.00042                                     |                            |
| Dissolved Metals                             |            |            |           |      |                           |                            |                             |                            |                                             |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0798                    | 0.0094                     | 0.0330                      | ----                       | 0.0166                                      |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                    | ----                       | <0.00010                                    |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00185                   | 0.00130                    | 0.00191                     | ----                       | 0.00152                                     |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0154                    | 0.0126                     | 0.0178                      | ----                       | 0.0149                                      |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                   | ----                       | <0.000020                                   |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                   | ----                       | <0.000050                                   |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.016                     | 0.014                      | 0.020                       | ----                       | 0.018                                       |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000116                 | <0.0000050                 | 0.0000068                   | ----                       | <0.0000050                                  |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 25.5                      | 27.8                       | 32.0                        | ----                       | 28.9                                        |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                   | ----                       | <0.000010                                   |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                    | ----                       | <0.00050                                    |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00027                   | 0.00025                    | 0.00024                     | ----                       | 0.00023                                     |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00084                   | 0.00033                    | 0.00168                     | ----                       | 0.00053                                     |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.608                     | 0.414                      | 0.482                       | ----                       | 0.458                                       |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000142                  | <0.000050                  | 0.000086                    | ----                       | <0.000050                                   |                            |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | SW24_SW_202<br>40702<br>SW | SW29A_SW_20<br>240702<br>SW | SW03_SW_202<br>40702<br>SW | 1 - TEEPLE<br>CULVERT_MM_<br>20240703<br>SW | SW20_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------|----------------------------|-----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 09-Jul-2024 12:40 | 09-Jul-2024 13:05          | 09-Jul-2024 14:30           | 10-Jul-2024 00:00          | 10-Jul-2024 09:15                           |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407459-006     | TY2407459-007              | TY2407459-008               | TY2407459-009              | TY2407459-010                               |                            |
|                                              |            |            |           |      | Result            | Result                     | Result                      | Result                     | Result                                      |                            |
| Dissolved Metals                             |            |            |           |      |                   |                            |                             |                            |                                             |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0040            | 0.0035                     | 0.0045                      | ----                       | 0.0041                                      |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 10.3              | 11.3                       | 11.4                        | ----                       | 11.6                                        |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0824            | 0.0824                     | 0.0633                      | ----                       | 0.0728                                      |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | 0.0000058         | <0.0000050                 | 0.0000055                   | <0.0000050                 | <0.0000050                                  |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000311          | 0.000293                   | 0.000421                    | ----                       | 0.000346                                    |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00157           | 0.00121                    | 0.00193                     | ----                       | 0.00150                                     |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050            | <0.050                     | 0.065                       | ----                       | <0.050                                      |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.596             | 0.163                      | 0.928                       | ----                       | 0.521                                       |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00112           | 0.00040                    | 0.00154                     | ----                       | 0.00113                                     |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000260          | 0.000240                   | 0.000272                    | ----                       | 0.000225                                    |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 3.88              | 4.17                       | 4.30                        | ----                       | 3.80                                        |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010         | <0.000010                  | <0.000010                   | ----                       | <0.000010                                   |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 2.48              | 1.30                       | 4.29                        | ----                       | 8.37                                        |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0593            | 0.0604                     | 0.0767                      | ----                       | 0.0704                                      |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 0.88              | <0.50                      | 1.47                        | ----                       | <0.50                                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020          | <0.00020                   | <0.00020                    | ----                       | <0.00020                                    |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010         | <0.000010                  | <0.000010                   | ----                       | <0.000010                                   |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                   | <0.00010                    | ----                       | <0.00010                                    |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                   | <0.00010                    | ----                       | <0.00010                                    |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00229           | 0.00038                    | 0.00162                     | ----                       | 0.00133                                     |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                   | <0.00010                    | ----                       | <0.00010                                    |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000228          | 0.000106                   | 0.000290                    | ----                       | 0.000167                                    |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | 0.00097           | <0.00050                   | 0.00104                     | ----                       | 0.00056                                     |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0015            | <0.0010                    | 0.0013                      | ----                       | 0.0014                                      |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | 0.00046           | <0.00030                   | 0.00042                     | ----                       | 0.00046                                     |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field             | Field                      | Field                       | Field                      | Field                                       |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field             | Field                      | Field                       | ----                       | Field                                       |                            |
| Speciated Metals                             |            |            |           |      |                   |                            |                             |                            |                                             |                            |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA    | 0.000020  | µg/L | 0.000857          | ----                       | 0.000962                    | 0.00112                    | 0.000744                                    |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID  | SW24_SW_202<br>40702<br>SW | SW29A_SW_20<br>240702<br>SW | SW03_SW_202<br>40702<br>SW | 1 - TEEPLE<br>CULVERT_MM_<br>20240703<br>SW | SW20_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|-------|------|-------------------|----------------------------|-----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time                  |            |            |       |      | 09-Jul-2024 12:40 | 09-Jul-2024 13:05          | 09-Jul-2024 14:30           | 10-Jul-2024 00:00          | 10-Jul-2024 09:15                           |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2407459-006     | TY2407459-007              | TY2407459-008               | TY2407459-009              | TY2407459-010                               |                            |
|                                              |            |            |       |      | Result            | Result                     | Result                      | Result                     | Result                                      |                            |
| Aggregate Organics                           |            |            |       |      |                   |                            |                             |                            |                                             |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0   | mg/L | <2.0              | <2.0                       | <2.0                        | ----                       | <2.0                                        |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 122               | 84                         | 124                         | ----                       | 89                                          |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | <1.0              | <1.0                       | <1.0                        | ----                       | 1.5                                         |                            |
| Radiological Parameters                      |            |            |       |      |                   |                            |                             |                            |                                             |                            |
| Radium-226                                   | 13982-63-3 | Ra-226/2I  | 0.005 | Bq/L | <0.005            | ----                       | ----                        | ----                       | 0.006                                       |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.  
Please refer to the Accreditation section for an explanation of analyte accreditations.





Analytical Results

|                                              |            |              |        |          |                         |                             |                            |                            |                            |                            |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW28A_SW_20<br>240702<br>SW | SW10_SW_202<br>40702<br>SW | SW02_SW_202<br>40702<br>SW | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW |
| Client sampling date / time                  |            |              |        |          |                         | 10-Jul-2024 09:30           | 10-Jul-2024 09:50          | 10-Jul-2024 10:20          | 10-Jul-2024 10:45          | 10-Jul-2024 11:15          |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2407459-011           | TY2407459-012               | TY2407459-013              | TY2407459-014              | TY2407459-015              |                            |
|                                              |            |              |        |          | Result                  | Result                      | Result                     | Result                     | Result                     |                            |
| Field Tests                                  |            |              |        |          |                         |                             |                            |                            |                            |                            |
| Oxygen, dissolved, field                     | ---        | EF001/TY     | 0.01   | mg/L     | 6.43                    | 6.3                         | 3.75                       | 2.73                       | 5.15                       |                            |
| pH, field                                    | ---        | EF001/TY     | 0.10   | pH units | 7.43                    | 7.35                        | 6.97                       | 7.42                       | 7.61                       |                            |
| Temperature, field                           | ---        | EF001/TY     | 0.10   | °C       | 22.2                    | 21.9                        | 20.6                       | 19.9                       | 20.3                       |                            |
| Physical Tests                               |            |              |        |          |                         |                             |                            |                            |                            |                            |
| Acidity (as CaCO3)                           | ---        | E283/TY      | 2.0    | mg/L     | <2.0                    | <2.0                        | 3.4                        | <2.0                       | <2.0                       |                            |
| Colour, true                                 | ---        | E329-L/TY    | 2.0    | CU       | 162                     | 229                         | 215                        | 103                        | 98.6                       |                            |
| Conductivity                                 | ---        | E100/TY      | 1.0    | µS/cm    | 154                     | 206                         | 125                        | 272                        | 298                        |                            |
| Hardness (as CaCO3), dissolved               | ---        | EC100/TY     | 0.50   | mg/L     | 94.6                    | 113                         | 76.4                       | 151                        | 162                        |                            |
| pH                                           | ---        | E108/TY      | 0.10   | pH units | 7.92                    | 7.94                        | 7.72                       | 8.12                       | 8.19                       |                            |
| Solids, total dissolved [TDS]                | ---        | E162/TY      | 10     | mg/L     | 125                     | 168                         | 121                        | 190                        | 197                        |                            |
| Solids, total suspended [TSS]                | ---        | E160/TY      | 3.0    | mg/L     | <3.0                    | 6.4                         | <3.0                       | <3.0                       | <3.0                       |                            |
| Turbidity                                    | ---        | E121/TY      | 0.10   | NTU      | 1.31                    | 6.92                        | 0.83                       | 2.06                       | 3.07                       |                            |
| Alkalinity, total (as CaCO3)                 | ---        | E290/TY      | 2.0    | mg/L     | 83.0                    | 99.4                        | 66.6                       | 139                        | 146                        |                            |
| Anions and Nutrients                         |            |              |        |          |                         |                             |                            |                            |                            |                            |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0202 <sup>&lt;T</sup> | 0.0283 <sup>&lt;T</sup>     | 0.0420 <sup>&lt;T</sup>    | 0.0218 <sup>&lt;T</sup>    | 0.0189 <sup>&lt;T</sup>    |                            |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                     | <0.0010                    | <0.0010                    | <0.0010                    |                            |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 0.37                    | 6.63                        | 0.12                       | 4.45                       | 5.80                       |                            |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.042                   | 0.048                       | 0.031                      | 0.050                      | 0.052                      |                            |
| Kjeldahl nitrogen, total [TKN]               | ---        | E318/TY      | 0.050  | mg/L     | 1.33                    | 1.39                        | 1.11                       | 0.973                      | 0.913                      |                            |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                  | <0.020                      | <0.020                     | <0.020                     | <0.020                     |                            |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                  | <0.010                      | <0.010                     | <0.010                     | <0.010                     |                            |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010                 | 0.0417                      | <0.0010                    | 0.0094                     | 0.0058                     |                            |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | <0.30                   | 0.55                        | <0.30                      | 3.02                       | 7.32                       |                            |
| Cyanides                                     |            |              |        |          |                         |                             |                            |                            |                            |                            |
| Cyanide, free                                | ---        | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |                            |
| Cyanide, strong acid dissociable (Total)     | ---        | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |                            |
| Cyanide, weak acid dissociable               | ---        | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |                            |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                             |                            |                            |                            |                            |
| Carbon, dissolved organic [DOC]              | ---        | E358-L/WT    | 0.50   | mg/L     | 35.3                    | 40.1                        | 38.6                       | 27.7                       | 25.3                       |                            |
| Carbon, total organic [TOC]                  | ---        | E355-L/WT    | 0.50   | mg/L     | 32.4                    | 38.4                        | 35.0                       | 30.7                       | 24.5                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | SW28A_SW_20<br>240702<br>SW | SW10_SW_202<br>40702<br>SW | SW02_SW_202<br>40702<br>SW | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 10-Jul-2024 09:30 | 10-Jul-2024 09:50           | 10-Jul-2024 10:20          | 10-Jul-2024 10:45          | 10-Jul-2024 11:15          |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407459-011     | TY2407459-012               | TY2407459-013              | TY2407459-014              | TY2407459-015              |                            |
|                                              |            |            |           |      | Result            | Result                      | Result                     | Result                     | Result                     |                            |
| Total Metals                                 |            |            |           |      |                   |                             |                            |                            |                            |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0646            | 0.318                       | 0.0463                     | 0.0897                     | 0.129                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010          | <0.00010                    | <0.00010                   | 0.00012 <T                 | 0.00011 <T                 |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00131 <T        | 0.00186 <T                  | 0.00151 <T                 | 0.00170 <T                 | 0.00174 <T                 |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.00933           | 0.0167                      | 0.0111                     | 0.0161                     | 0.0186                     |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020         | 0.000028 <T                 | <0.000020                  | <0.000020                  | <0.000020                  |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050         | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.011 <T          | 0.017 <T                    | <0.010                     | 0.014 <T                   | 0.016 <T                   |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050        | 0.0000117 <T                | <0.0000050                 | <0.0000050                 | <0.0000050                 |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 22.3              | 27.4                        | 19.3                       | 39.2                       | 41.8                       |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010         | 0.000041                    | <0.000010                  | 0.000013                   | 0.000021                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050          | 0.00081 <T                  | <0.00050                   | <0.00050                   | <0.00050                   |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00014 <T        | 0.00031 <T                  | 0.00030 <T                 | 0.00016 <T                 | 0.00016 <T                 |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050          | 0.00113 <T                  | <0.00050                   | 0.00116 <T                 | 0.00127 <T                 |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.339             | 0.808                       | 0.650                      | 0.344                      | 0.344                      |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050         | 0.000238 <T                 | 0.000094 <T                | 0.000075 <T                | 0.000088 <T                |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0027 <T         | 0.0041 <T                   | 0.0016 <T                  | 0.0034 <T                  | 0.0044 <T                  |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 9.95              | 11.7                        | 7.49                       | 13.5                       | 14.6                       |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0325            | 0.0361                      | 0.132                      | 0.0854                     | 0.0494                     |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050        | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000331 <T       | 0.000429 <T                 | 0.000097 <T                | 0.000655 <T                | 0.000697 <T                |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00105 <T        | 0.00209 <T                  | 0.00071 <T                 | 0.00173 <T                 | 0.00157 <T                 |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050            | 0.090                       | <0.050                     | <0.050                     | <0.050                     |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.216             | 0.719                       | 0.484                      | 1.24                       | 1.45                       |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00084           | 0.00187                     | 0.00125                    | 0.00150                    | 0.00162                    |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000180 <T       | 0.000265 <T                 | 0.000172 <T                | 0.000214 <T                | 0.000230 <T                |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 1.44              | 4.08                        | 3.46                       | 3.17                       | 3.45                       |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010         | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 0.861             | 5.04                        | 0.711                      | 2.54                       | 3.24                       |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0454            | 0.0731                      | 0.0333                     | 0.0818                     | 0.0971                     |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | <0.50             | 0.58                        | <0.50                      | 1.42                       | 3.17                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW28A_SW_20<br>240702<br>SW | SW10_SW_202<br>40702<br>SW | SW02_SW_202<br>40702<br>SW | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 10-Jul-2024 09:30         | 10-Jul-2024 09:50           | 10-Jul-2024 10:20          | 10-Jul-2024 10:45          | 10-Jul-2024 11:15          |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407459-011             | TY2407459-012               | TY2407459-013              | TY2407459-014              | TY2407459-015              |                            |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                     | Result                     |                            |
| Total Metals                                 |            |            |           |      |                           |                             |                            |                            |                            |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00241                   | 0.00948                     | 0.00109                    | 0.00371                    | 0.00526                    |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000155 <sup>&lt;T</sup> | 0.000321 <sup>&lt;T</sup>   | 0.000038 <sup>&lt;T</sup>  | 0.000474 <sup>&lt;T</sup>  | 0.000704 <sup>&lt;T</sup>  |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00066                   | 0.00193                     | <0.00050                   | 0.00091                    | 0.00104                    |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | 0.0032 <sup>&lt;T</sup>     | <0.0030                    | 0.0086 <sup>&lt;T</sup>    | 0.0057 <sup>&lt;T</sup>    |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00024                   | 0.00056                     | <0.00020                   | 0.00035                    | 0.00039                    |                            |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                            |                            |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0100                    | 0.0312                      | 0.0246                     | 0.0114                     | 0.0128                     |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00119                   | 0.00174                     | 0.00142                    | 0.00163                    | 0.00166                    |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00879                   | 0.0143                      | 0.0102                     | 0.0154                     | 0.0172                     |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | 0.000022                    | <0.000020                  | <0.000020                  | <0.000020                  |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.011                     | 0.019                       | 0.011                      | 0.015                      | 0.017                      |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000068                   | <0.0000050                 | <0.0000050                 | <0.0000050                 |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 21.9                      | 26.9                        | 19.0                       | 38.6                       | 41.1                       |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                    | <0.00050                   | <0.00050                   | <0.00050                   |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00010                   | 0.00017                     | 0.00022                    | 0.00013                    | 0.00011                    |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00036                   | 0.00084                     | <0.00020                   | 0.00100                    | 0.00121                    |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.242                     | 0.414                       | 0.485                      | 0.220                      | 0.170                      |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050                 | 0.000093                    | 0.000062                   | <0.000050                  | <0.000050                  |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0024                    | 0.0042                      | 0.0018                     | 0.0035                     | 0.0045                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 9.69                      | 11.2                        | 7.03                       | 13.2                       | 14.3                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0198                    | 0.0287                      | 0.101                      | 0.0720                     | 0.0406                     |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID  | SW28A_SW_20<br>240702<br>SW | SW10_SW_202<br>40702<br>SW | SW02_SW_202<br>40702<br>SW | SW25_SW_202<br>40702<br>SW | SW26_SW_202<br>40702<br>SW |
|----------------------------------------------|------------|------------|----------|------|-------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |          |      | 10-Jul-2024 09:30 | 10-Jul-2024 09:50           | 10-Jul-2024 10:20          | 10-Jul-2024 10:45          | 10-Jul-2024 11:15          |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2407459-011     | TY2407459-012               | TY2407459-013              | TY2407459-014              | TY2407459-015              |                            |
|                                              |            |            |          |      | Result            | Result                      | Result                     | Result                     | Result                     |                            |
| Dissolved Metals                             |            |            |          |      |                   |                             |                            |                            |                            |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050 | mg/L | 0.000316          | 0.000429                    | 0.000108                   | 0.000636                   | 0.000710                   |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050  | mg/L | 0.00091           | 0.00164                     | 0.00061                    | 0.00154                    | 0.00146                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050    | mg/L | <0.050            | <0.050                      | <0.050                     | <0.050                     | <0.050                     |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050    | mg/L | 0.189             | 0.642                       | 0.459                      | 1.20                       | 1.41                       |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020  | mg/L | 0.00069           | 0.00110                     | 0.00115                    | 0.00124                    | 0.00142                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050 | mg/L | 0.000145          | 0.000233                    | 0.000192                   | 0.000249                   | 0.000184                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050    | mg/L | 1.20              | 3.40                        | 3.43                       | 2.94                       | 3.13                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010 | mg/L | <0.000010         | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050    | mg/L | 0.781             | 5.07                        | 0.668                      | 2.57                       | 3.33                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020  | mg/L | 0.0423            | 0.0677                      | 0.0316                     | 0.0803                     | 0.0931                     |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50     | mg/L | <0.50             | 0.55                        | <0.50                      | 1.37                       | 3.06                       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020  | mg/L | <0.00020          | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010 | mg/L | <0.000010         | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010  | mg/L | <0.00010          | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010  | mg/L | <0.00010          | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030  | mg/L | 0.00056           | 0.00248                     | 0.00059                    | 0.00114                    | <0.00150 <sup>DLM</sup>    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010  | mg/L | <0.00010          | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010 | mg/L | 0.000140          | 0.000275                    | 0.000030                   | 0.000427                   | 0.000610                   |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050  | mg/L | <0.00050          | 0.00112                     | <0.00050                   | 0.00059                    | 0.00065                    |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010   | mg/L | 0.0040            | 0.0014                      | 0.0024                     | 0.0077                     | 0.0050                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030  | mg/L | <0.00030          | 0.00052                     | <0.00030                   | 0.00034                    | 0.00031                    |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -        | -    | Field             | Field                       | Field                      | Field                      | Field                      |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -        | -    | Field             | Field                       | Field                      | Field                      | Field                      |                            |
| Speciated Metals                             |            |            |          |      |                   |                             |                            |                            |                            |                            |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA    | 0.000020 | µg/L | ----              | 0.000632                    | ----                       | ----                       | ----                       |                            |
| Aggregate Organics                           |            |            |          |      |                   |                             |                            |                            |                            |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0      | mg/L | <2.0              | <2.0                        | <2.0                       | <2.0                       | <2.0                       |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10       | mg/L | 92                | 101                         | 98                         | 100                        | 85                         |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0      | mg/L | <1.0              | <1.0                        | <1.0                       | <1.0                       | <1.0                       |                            |

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Work Order : TY2407459  
Client : New Gold Inc. (Rainy River)  
Project : Surface Water

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Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                          |            |              |        |          | Client sample ID | SW27_SW_202<br>40702<br>SW | SW21A_SW_20<br>240702<br>SW | SW06_SW_202<br>40702<br>SW | TB_SW_20240<br>702<br>SW | SW22A_SW_20<br>240702<br>SW |
|------------------------------------------|------------|--------------|--------|----------|------------------|----------------------------|-----------------------------|----------------------------|--------------------------|-----------------------------|
| Client sampling date / time              |            |              |        |          |                  | 10-Jul-2024 11:35          | 10-Jul-2024 11:50           | 10-Jul-2024 12:00          | 10-Jul-2024 12:00        | 10-Jul-2024 12:30           |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2407459-016              | TY2407459-017               | TY2407459-018              | TY2407459-019            | TY2407459-020               |
|                                          |            |              |        |          |                  | Result                     | Result                      | Result                     | Result                   | Result                      |
| Field Tests                              |            |              |        |          |                  |                            |                             |                            |                          |                             |
| Oxygen, dissolved, field                 | ---        | EF001/TY     | 0.01   | mg/L     |                  | 0.97                       | 4.46                        | 6.43                       | ----                     | 6.08                        |
| pH, field                                | ---        | EF001/TY     | 0.10   | pH units |                  | 6.99                       | 7.18                        | 7.43                       | ----                     | 7.44                        |
| Temperature, field                       | ---        | EF001/TY     | 0.10   | °C       |                  | 18.7                       | 23.0                        | 22.2                       | ----                     | 23.8                        |
| Physical Tests                           |            |              |        |          |                  |                            |                             |                            |                          |                             |
| Acidity (as CaCO3)                       | ---        | E283/TY      | 2.0    | mg/L     |                  | <2.0                       | <2.0                        | <2.0                       | <2.0                     | <2.0                        |
| Colour, true                             | ---        | E329-L/TY    | 2.0    | CU       |                  | 98.6                       | 171                         | 162                        | <2.0                     | 160                         |
| Conductivity                             | ---        | E100/TY      | 1.0    | µS/cm    |                  | 329                        | 248                         | 154                        | <1.0                     | 259                         |
| Hardness (as CaCO3), dissolved           | ---        | EC100/TY     | 0.50   | mg/L     |                  | 181                        | 132                         | 94.0                       | <0.50                    | 140                         |
| pH                                       | ---        | E108/TY      | 0.10   | pH units |                  | 8.16                       | 8.00                        | 7.93                       | 5.47                     | 8.10                        |
| Solids, total dissolved [TDS]            | ---        | E162/TY      | 10     | mg/L     |                  | 209                        | 188                         | 140                        | <10                      | 202                         |
| Solids, total suspended [TSS]            | ---        | E160/TY      | 3.0    | mg/L     |                  | <3.0                       | <3.0                        | <3.0                       | <3.0                     | <3.0                        |
| Turbidity                                | ---        | E121/TY      | 0.10   | NTU      |                  | 2.59                       | 0.79                        | 1.17                       | <0.10                    | 1.13                        |
| Alkalinity, total (as CaCO3)             | ---        | E290/TY      | 2.0    | mg/L     |                  | 161                        | 120                         | 81.5                       | <2.0                     | 125                         |
| Anions and Nutrients                     |            |              |        |          |                  |                            |                             |                            |                          |                             |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | 0.0198 <sup>°T</sup>       | 0.0269 <sup>°T</sup>        | 0.0193 <sup>°T</sup>       | <0.0050                  | 0.0223 <sup>°T</sup>        |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010                    | <0.0010                     | <0.0010                    | ----                     | <0.0010                     |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 6.62                       | 8.08                        | 0.38                       | <0.10                    | 7.61                        |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.057                      | 0.055                       | 0.041                      | <0.020                   | 0.055                       |
| Kjeldahl nitrogen, total [TKN]           | ---        | E318/TY      | 0.050  | mg/L     |                  | 1.02                       | 1.37                        | 1.33                       | <0.050                   | 1.29                        |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | <0.020                     | <0.020                      | <0.020                     | <0.020                   | <0.020                      |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     |                  | <0.010                     | <0.010                      | <0.010                     | <0.010                   | <0.010                      |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     |                  | 0.0165                     | 0.0774                      | <0.0010                    | <0.0010                  | 0.0769                      |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     |                  | 7.24                       | 0.52                        | <0.30                      | <0.30                    | 1.34                        |
| Cyanides                                 |            |              |        |          |                  |                            |                             |                            |                          |                             |
| Cyanide, free                            | ---        | E339/WT      | 0.0020 | mg/L     |                  | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  | <0.0020                     |
| Cyanide, strong acid dissociable (Total) | ---        | E333/WT      | 0.0020 | mg/L     |                  | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  | <0.0020                     |
| Cyanide, weak acid dissociable           | ---        | E336/WT      | 0.0020 | mg/L     |                  | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  | <0.0020                     |
| Organic / Inorganic Carbon               |            |              |        |          |                  |                            |                             |                            |                          |                             |
| Carbon, dissolved organic [DOC]          | ---        | E358-L/WT    | 0.50   | mg/L     |                  | 26.4                       | 35.3                        | 35.2                       | <0.50                    | 34.3                        |
| Carbon, total organic [TOC]              | ---        | E355-L/WT    | 0.50   | mg/L     |                  | 24.1                       | 33.2                        | 34.5                       | <0.50                    | 33.6                        |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | SW27_SW_202<br>40702<br>SW | SW21A_SW_20<br>240702<br>SW | SW06_SW_202<br>40702<br>SW | TB_SW_20240<br>702<br>SW | SW22A_SW_20<br>240702<br>SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------|----------------------------|-----------------------------|----------------------------|--------------------------|-----------------------------|
| Client sampling date / time                  |            |            |           |      | 10-Jul-2024 11:35 | 10-Jul-2024 11:50          | 10-Jul-2024 12:00           | 10-Jul-2024 12:00          | 10-Jul-2024 12:30        |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2407459-016     | TY2407459-017              | TY2407459-018               | TY2407459-019              | TY2407459-020            |                             |
|                                              |            |            |           |      | Result            | Result                     | Result                      | Result                     | Result                   |                             |
| Total Metals                                 |            |            |           |      |                   |                            |                             |                            |                          |                             |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0925            | 0.0353                     | 0.0598                      | <0.0030                    | 0.0522                   |                             |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | 0.00012 <T        | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 |                             |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00169 <T        | 0.00206 <T                 | 0.00130 <T                  | <0.00010                   | 0.00207 <T               |                             |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0200            | 0.0159                     | 0.00927                     | <0.00010                   | 0.0163                   |                             |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020         | <0.000020                  | <0.000020                   | <0.000020                  | <0.000020                |                             |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050         | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050                |                             |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.018 <T          | 0.020 <T                   | 0.011 <T                    | <0.010                     | 0.020 <T                 |                             |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | 0.0000053 <T      | <0.0000050                 | 0.0000096 <T                | <0.0000050                 | <0.0000050               |                             |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 47.1              | 32.8                       | 22.9                        | <0.050                     | 34.8                     |                             |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000011          | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                |                             |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050          | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050                 |                             |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00020 <T        | 0.00025 <T                 | 0.00014 <T                  | <0.00010                   | 0.00022 <T               |                             |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00110 <T        | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050                 |                             |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.324             | 0.636                      | 0.345                       | <0.010                     | 0.546                    |                             |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000064 <T       | <0.000050                  | <0.000050                   | <0.000050                  | 0.000058 <T              |                             |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0048 <T         | 0.0043 <T                  | 0.0027 <T                   | <0.0010                    | 0.0043 <T                |                             |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 16.7              | 13.3                       | 9.95                        | <0.0050                    | 13.9                     |                             |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.123             | 0.0559                     | 0.0317                      | <0.00010                   | 0.0403                   |                             |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050        | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050               |                             |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000657 <T       | 0.000440 <T                | 0.000321 <T                 | <0.000050                  | 0.000484 <T              |                             |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00165 <T        | 0.00170 <T                 | 0.00111 <T                  | <0.00050                   | 0.00167 <T               |                             |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050            | 0.151                      | <0.050                      | <0.050                     | 0.125                    |                             |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.52              | 1.00                       | 0.223                       | <0.050                     | 1.01                     |                             |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00152           | 0.00181                    | 0.00087                     | <0.00020                   | 0.00171                  |                             |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000223 <T       | 0.000236 <T                | 0.000168 <T                 | <0.000050                  | 0.000264 <T              |                             |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 3.45              | 4.59                       | 1.41                        | <0.10                      | 4.46                     |                             |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010         | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                |                             |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 4.39              | 5.79                       | 0.866                       | <0.050                     | 5.43                     |                             |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.101             | 0.0795                     | 0.0434                      | <0.00020                   | 0.0862                   |                             |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 3.36              | 0.61                       | <0.50                       | <0.50                      | 1.02                     |                             |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID       | SW27_SW_202<br>40702<br>SW | SW21A_SW_20<br>240702<br>SW | SW06_SW_202<br>40702<br>SW | TB_SW_20240<br>702<br>SW | SW22A_SW_20<br>240702<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|-----------------------------|
| Client sampling date / time |            |            |           |      | 10-Jul-2024 11:35      | 10-Jul-2024 11:50          | 10-Jul-2024 12:00           | 10-Jul-2024 12:00          | 10-Jul-2024 12:00        | 10-Jul-2024 12:30           |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2407459-016          | TY2407459-017              | TY2407459-018               | TY2407459-019              | TY2407459-020            |                             |
|                             |            |            |           |      | Result                 | Result                     | Result                      | Result                     | Result                   |                             |
| Total Metals                |            |            |           |      |                        |                            |                             |                            |                          |                             |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020               | <0.00020                   | <0.00020                    | <0.00020                   | <0.00020                 | <0.00020                    |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010              | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                | <0.000010                   |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010               | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 | <0.00010                    |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010               | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 | <0.00010                    |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00372                | 0.00146                    | <0.00288 <sup>DLM</sup>     | <0.00030                   | 0.00244                  |                             |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010               | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 | <0.00010                    |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000853 <sup>^T</sup> | 0.000176 <sup>^T</sup>     | 0.000152 <sup>^T</sup>      | <0.000010                  | 0.000264 <sup>^T</sup>   |                             |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00104                | 0.00075                    | 0.00065                     | <0.00050                   | 0.00087                  |                             |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0035 <sup>^T</sup>   | <0.0030                    | <0.0030                     | <0.0030                    | <0.0030                  |                             |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00035                | 0.00027                    | <0.00020                    | <0.00020                   | 0.00033                  |                             |
| Dissolved Metals            |            |            |           |      |                        |                            |                             |                            |                          |                             |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0100                 | 0.0088                     | 0.0101                      | <0.0010                    | 0.0091                   |                             |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010               | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 |                             |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00165                | 0.00203                    | 0.00116                     | <0.00010                   | 0.00192                  |                             |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0193                 | 0.0149                     | 0.00855                     | <0.00010                   | 0.0150                   |                             |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020              | <0.000020                  | <0.000020                   | <0.000020                  | <0.000020                |                             |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050              | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050                |                             |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.018                  | 0.021                      | 0.011                       | <0.010                     | 0.019                    |                             |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050             | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050               |                             |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 46.3                   | 32.4                       | 21.2                        | <0.050                     | 34.5                     |                             |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010              | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                |                             |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050               | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050                 |                             |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00015                | 0.00020                    | 0.00011                     | <0.00010                   | 0.00018                  |                             |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00096                | 0.00039                    | 0.00036                     | <0.00020                   | 0.00041                  |                             |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.174                  | 0.491                      | 0.237                       | <0.010                     | 0.421                    |                             |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050              | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050                |                             |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0055                 | 0.0045                     | 0.0028                      | <0.0010                    | 0.0049                   |                             |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 16.0                   | 12.5                       | 9.96                        | <0.0050                    | 13.2                     |                             |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.105                  | 0.0427                     | 0.0200                      | <0.00010                   | 0.0356                   |                             |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050             | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050               |                             |





Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID        | SW27_SW_202<br>40702<br>SW | SW21A_SW_20<br>240702<br>SW | SW06_SW_202<br>40702<br>SW | TB_SW_20240<br>702<br>SW | SW22A_SW_20<br>240702<br>SW |
|----------------------------------------------|------------|------------|----------|------|-------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|-----------------------------|
| Client sampling date / time                  |            |            |          |      | 10-Jul-2024 11:35       | 10-Jul-2024 11:50          | 10-Jul-2024 12:00           | 10-Jul-2024 12:00          | 10-Jul-2024 12:30        |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2407459-016           | TY2407459-017              | TY2407459-018               | TY2407459-019              | TY2407459-020            |                             |
|                                              |            |            |          |      | Result                  | Result                     | Result                      | Result                     | Result                   |                             |
| Dissolved Metals                             |            |            |          |      |                         |                            |                             |                            |                          |                             |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050 | mg/L | 0.000687                | 0.000468                   | 0.000313                    | <0.000050                  | 0.000432                 |                             |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050  | mg/L | 0.00141                 | 0.00157                    | 0.00092                     | <0.00050                   | 0.00155                  |                             |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050    | mg/L | <0.050                  | 0.117                      | <0.050                      | <0.050                     | 0.116                    |                             |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050    | mg/L | 1.47                    | 0.974                      | 0.198                       | <0.050                     | 0.976                    |                             |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020  | mg/L | 0.00135                 | 0.00169                    | 0.00067                     | <0.00020                   | 0.00156                  |                             |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050 | mg/L | 0.000234                | 0.000188                   | 0.000162                    | <0.000050                  | 0.000210                 |                             |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050    | mg/L | 3.37                    | 4.46                       | 1.22                        | <0.050                     | 4.48                     |                             |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010 | mg/L | <0.000010               | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                |                             |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050    | mg/L | 4.51                    | 5.67                       | 0.823                       | <0.050                     | 5.46                     |                             |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020  | mg/L | 0.101                   | 0.0811                     | 0.0440                      | <0.00020                   | 0.0865                   |                             |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50     | mg/L | 3.19                    | <0.50                      | <0.50                       | <0.50                      | 0.83                     |                             |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020  | mg/L | <0.00020                | <0.00020                   | <0.00020                    | <0.00020                   | <0.00020                 |                             |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010 | mg/L | <0.000010               | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                |                             |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010  | mg/L | <0.00010                | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 |                             |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010  | mg/L | <0.00010                | 0.00014                    | <0.00010                    | <0.00010                   | <0.00010                 |                             |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030  | mg/L | <0.00150 <sup>DLM</sup> | 0.00054                    | 0.00076                     | <0.00030                   | 0.00070                  |                             |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010  | mg/L | <0.00010                | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 |                             |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010 | mg/L | 0.000694                | 0.000154                   | 0.000132                    | <0.000010                  | 0.000226                 |                             |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050  | mg/L | 0.00069                 | <0.00050                   | <0.00050                    | <0.00050                   | 0.00060                  |                             |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010   | mg/L | 0.0032                  | <0.0010                    | 0.0023                      | <0.0010                    | <0.0010                  |                             |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030  | mg/L | 0.00032                 | 0.00032                    | <0.00030                    | <0.00030                   | 0.00032                  |                             |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -        | -    | Field                   | Field                      | Field                       | Field                      | Field                    |                             |
| Dissolved metals filtration location         | ----       | EP421/TY   | -        | -    | Field                   | Field                      | Field                       | Field                      | Field                    |                             |
| Speciated Metals                             |            |            |          |      |                         |                            |                             |                            |                          |                             |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA    | 0.000020 | µg/L | ----                    | ----                       | ----                        | ----                       | 0.00101                  |                             |
| Aggregate Organics                           |            |            |          |      |                         |                            |                             |                            |                          |                             |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0      | mg/L | <2.0                    | <2.0                       | <2.0                        | <2.0                       | <2.0                     |                             |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10       | mg/L | 68                      | 90                         | 87                          | <10                        | 83                       |                             |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0      | mg/L | 1.0                     | <1.0                       | <1.0                        | <1.0                       | <1.0                     |                             |
| Radiological Parameters                      |            |            |          |      |                         |                            |                             |                            |                          |                             |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                         |            |            |       |      | Client sample ID            | SW27_SW_202<br>40702<br>SW | SW21A_SW_20<br>240702<br>SW | SW06_SW_202<br>40702<br>SW | TB_SW_20240<br>702<br>SW | SW22A_SW_20<br>240702<br>SW |
|-------------------------|------------|------------|-------|------|-----------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|-----------------------------|
|                         |            |            |       |      | Client sampling date / time | 10-Jul-2024 11:35          | 10-Jul-2024 11:50           | 10-Jul-2024 12:00          | 10-Jul-2024 12:00        | 10-Jul-2024 12:30           |
| Analyte                 | CAS Number | Method/Lab | LOR   | Unit |                             | TY2407459-016              | TY2407459-017               | TY2407459-018              | TY2407459-019            | TY2407459-020               |
|                         |            |            |       |      |                             | Result                     | Result                      | Result                     | Result                   | Result                      |
| Radiological Parameters |            |            |       |      |                             |                            |                             |                            |                          |                             |
| Radium-226              | 13982-63-3 | Ra-226/21  | 0.005 | Bq/L |                             | ----                       | ----                        | ----                       | ----                     | <0.005                      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Work Order Reference  
TY2407459

CHAIN OF CUSTODY RECORD - ALS-454843750

Project Name: Rainy River

Location: Chapple

Project Number:

Project Manager:

PO Number:

Project:

Turn Around Time (days): 10 Business Days

Shipping Company:

Shipping Date: 7/11/2024 9:00:00 AM

COC Number: ALS-454843750

Telephone : +1 807 823 6463



|                  |                               |                  |                 | Containers       |        |                     |             | Filtered |               |                            |  | Preservatives |  |            |  |  |  |               |  |          |  |                      |          |
|------------------|-------------------------------|------------------|-----------------|------------------|--------|---------------------|-------------|----------|---------------|----------------------------|--|---------------|--|------------|--|--|--|---------------|--|----------|--|----------------------|----------|
| Sample Code      | Field Dissolved Oxygen (mg/L) | Field pH (Units) | Field Temp (°C) | Date and Time    | Matrix | HG-TOT_DIS-WT       |             |          |               | MEHG-T-GCAF-VA (Methyl Hg) |  |               |  | NG-SW-P-TB |  |  |  | RA226-MMER-BE |  |          |  | Number of Containers | Comments |
|                  |                               |                  |                 |                  |        | Mercury - Total and | MeHg Bottle | SW Kit   | Ra-226 Bottle |                            |  |               |  |            |  |  |  |               |  |          |  |                      |          |
| SW16_SW_20240702 | 4.94                          | 7.06             | 20.45           | 07/09/2024 10:10 | SW     |                     |             |          |               | X                          |  |               |  |            |  |  |  |               |  | 11       |  |                      |          |
| SW17_SW_20240702 | 3.09                          | 7.15             | 21              | 07/09/2024 11:10 | SW     |                     |             |          |               | X                          |  |               |  |            |  |  |  |               |  | 11       |  |                      |          |
| SW15_SW_20240702 | 2.27                          | 7.29             | 22.21           | 07/09/2024 11:50 | SW     |                     |             |          |               | X                          |  |               |  |            |  |  |  |               |  | 11       |  |                      |          |
| FB_SW_20240702   |                               |                  |                 | 07/09/2024 12:00 | SW     |                     |             |          |               | X                          |  |               |  |            |  |  |  |               |  | 11       |  |                      |          |
| SW23_SW_20240702 | 3.23                          | 7.25             | 21.78           | 07/09/2024 12:25 | SW     |                     |             |          |               | X                          |  |               |  |            |  |  |  |               |  | 12<br>11 |  |                      |          |
| SW23_SW_20240702 | 3.23                          | 7.25             | 21.78           | 07/09/2024 12:25 | SW     |                     |             |          |               | X                          |  |               |  |            |  |  |  |               |  | 12<br>1  |  |                      |          |

| Signature         |  | Data/Time            |  | Shipping Details            |  | ATTN |  | Special Instructions:             |  |
|-------------------|--|----------------------|--|-----------------------------|--|------|--|-----------------------------------|--|
| Shipped by        |  | 7/11/2024 9:00:00 AM |  | Method of Shipment: Courier |  |      |  | Email Invoice to:                 |  |
| Received by       |  |                      |  | On Ice: Yes / no            |  |      |  | rainyriver.accounts1@newgold.com  |  |
| M1 12 July 24 913 |  | 3303283983           |  | Shipped: Air/Ground         |  |      |  | Email Report to:                  |  |
| M1 12 July 24 913 |  | ice packs            |  | Lab Name: ALS Thunder Bay   |  |      |  | rainyriver.labresults@newgold.com |  |
|                   |  |                      |  | Lab Phone:                  |  |      |  |                                   |  |

[illegible]

|                                                                                                                                       |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Shipped by<br>17.3 15.6 13.4 13.9 14.2<br>14.9 11.7 14.2<br>Received by<br>PM 12 July 24 9 13                                         | Signature<br><br>Data/Time<br>7/11/2024 9:00:00 AM |
| Shipping Details<br>Method of Shipment: Courier<br>On Ice: yes / no<br>Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: | ATTN                                               |
| Special Instructions:                                                                                                                 |                                                    |
| Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com                        |                                                    |

[illegible]



## CHAIN OF CUSTODY RECORD - ALS-454843750

[illegible]

**Drinking Water (DW) Samples (client use)**

Are samples taken from a Regulated DW System? Yes ☒ No

Are samples for human consumption / use? Yes ☒ No

Samples from a Regulated DW System require an Authorized DW COC form

**Sample Receipt Details (ALS use only)**

Cooling Method: ☐ None ☐ Ice ☐ Ice Packs ☐ Frozen ☐ Cooling Initiated

Submission Comments identified on Sample Receipt Notification: ☐ Yes ☐ No

Cooler Custody Seals Intact: ☐ Yes ☐ NA Sample Custody Seals Intact: ☐ Yes ☐ NA

Initial Cooler Temperatures °C

Final Cooler Temperatures °C

Signature

Data/Time

Shipping Details

ATTN

Special Instructions:

Shipped by

7/11/2024 9:00:00 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

# Intake and Login Verification Form

| SAMPLE INTAKE                                              |                                        |                                     |           | ACCOUNT INFO VERIFICATION                                  |                                  |                                     |  |
|------------------------------------------------------------|----------------------------------------|-------------------------------------|-----------|------------------------------------------------------------|----------------------------------|-------------------------------------|--|
| Priority/Emergency Service Requested                       | YES                                    | <input checked="" type="radio"/> NO |           | Priority/Emergency Service Requested                       | YES                              | <input checked="" type="radio"/> NO |  |
| Time Sensitive Hold Time                                   | YES                                    | <input checked="" type="radio"/> NO |           | Confirmed all as accurate as per COC, Sample Remarks or PM |                                  |                                     |  |
| Client:                                                    | New Gold                               |                                     |           | Client                                                     | Work Contact                     | Quote                               |  |
| SAMPLE RECEIPT INFORMATION                                 |                                        |                                     |           | RECEIPT DETAIL                                             |                                  |                                     |  |
| Mode of Delivery:                                          | Courier                                | Drop Off                            |           | Project                                                    | PO                               | Site/LSD                            |  |
| Courier                                                    | Munich                                 |                                     |           | Overall Description Entered                                | Yes                              | <input checked="" type="radio"/> NA |  |
| Waybill Number                                             | 3303223923                             |                                     |           | Received date/time as per COC                              | <input checked="" type="radio"/> |                                     |  |
| Temperature                                                | See COC                                | Cooler Count                        | 8         | Recipients match CoC or Sample Remarks                     | Yes                              | No                                  |  |
| Cooling Method                                             | None                                   | Ice                                 | Ice Packs | Billing Instruction added to remarks                       | <input checked="" type="radio"/> | NA                                  |  |
| SAMPLE MATRIX/BOTTLE INFORMATION                           |                                        |                                     |           | VERIFICATION CHECKLIST                                     |                                  |                                     |  |
| Matrix:                                                    | <input checked="" type="radio"/> Water | Soil                                | Air       | Biota                                                      | Other                            |                                     |  |
| DW Schedule 24 Bottles Correct?                            |                                        | Yes                                 | No        |                                                            |                                  |                                     |  |
| DW Metals pH Check <2                                      |                                        | Yes                                 | No        |                                                            |                                  |                                     |  |
| Regulation Circled, Works # present                        | Yes                                    | No - Reject?                        |           |                                                            |                                  |                                     |  |
| # of Bottles:                                              | Sample Count                           |                                     |           | 20                                                         |                                  |                                     |  |
| Green/white                                                | 20A 19 BOD                             |                                     |           |                                                            |                                  |                                     |  |
| Purple/white                                               | 19 Nuts 19 TOL 19 DOC                  |                                     |           |                                                            |                                  |                                     |  |
| Warm red/white                                             | 19 Met - T 19 Met - D 4 RJ             |                                     |           |                                                            |                                  |                                     |  |
| Yellow/black                                               | 17 Hg - T, 20 Hg - D, 19 x2 OGG        |                                     |           |                                                            |                                  |                                     |  |
| Light blue/white                                           |                                        |                                     |           |                                                            |                                  |                                     |  |
| Orange/black                                               |                                        |                                     |           |                                                            |                                  |                                     |  |
| Others (detail) yellow/black cont'd: 6 to + Me Hg<br>19 CN |                                        |                                     |           |                                                            |                                  |                                     |  |
| Comments on Samples and Bottles:                           |                                        |                                     |           |                                                            |                                  |                                     |  |
| NA                                                         |                                        |                                     |           |                                                            |                                  |                                     |  |
| Samples Requiring Preservation or Filtering:               |                                        |                                     |           |                                                            |                                  |                                     |  |
| NA                                                         |                                        |                                     |           |                                                            |                                  |                                     |  |
| Layout Staff Initials                                      | AND                                    |                                     |           |                                                            |                                  |                                     |  |
| Date and Time of Layout                                    | July 12, 2024 12:00pm                  |                                     |           |                                                            |                                  |                                     |  |

TY-FM-2000b v03 Intake and Login Verification

28 June 2023 / APS, SQK

Page 1 of 1



## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2408638                                          | Page                    | : 1 of 22                                             |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Surface Water                                      | Date Samples Received   | : 09-Aug-2024 09:26                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 09-Aug-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 09-Sep-2024 10:02                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 19                                                 |                         |                                                       |
| No. of samples analysed | : 19                                                 |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories          | Position                               | Laboratory Department                            |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Ghanil Moradiya      | Laboratory Assistant                   | Administration, Thunder Bay, Ontario             |
| Julie Ruoho          | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Nik Perkio           | Senior Analyst                         | Inorganics, Waterloo, Ontario                    |
| Nik Perkio           | Senior Analyst                         | Metals, Waterloo, Ontario                        |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario                 |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario                     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| 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.                          |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                          |            |              |        |          | SW16_SW_202<br>40802<br>SW | SW17_SW_202<br>40802<br>SW | SW15_SW_202<br>40802<br>SW | SW23_SW_202<br>40802<br>SW | SW24_SW_202<br>40802<br>SW |
|------------------------------------------|------------|--------------|--------|----------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |              |        |          | 06-Aug-2024<br>09:30       | 06-Aug-2024<br>10:45       | 06-Aug-2024<br>11:25       | 06-Aug-2024<br>12:10       | 06-Aug-2024<br>12:25       |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     | TY2408638-001              | TY2408638-002              | TY2408638-003              | TY2408638-004              | TY2408638-005              |
|                                          |            |              |        |          | Result                     | Result                     | Result                     | Result                     | Result                     |
| Field Tests                              |            |              |        |          |                            |                            |                            |                            |                            |
| Oxygen, dissolved, field                 | ----       | EF001/TY     | 0.01   | mg/L     | 7.07                       | 6.32                       | 4.57                       | 5.64                       | 6.07                       |
| pH, field                                | ----       | EF001/TY     | 0.10   | pH units | 7.22                       | 7.28                       | 7.31                       | 7.32                       | 7.30                       |
| Temperature, field                       | ----       | EF001/TY     | 0.10   | °C       | 22.2                       | 22.6                       | 18.7                       | 18.5                       | 18.9                       |
| Physical Tests                           |            |              |        |          |                            |                            |                            |                            |                            |
| Acidity (as CaCO3)                       | ----       | E283/TY      | 2.0    | mg/L     | <2.0                       | <2.0                       | 2.6                        | 2.2                        | 2.6                        |
| Colour, true                             | ----       | E329-L/TY    | 2.0    | CU       | 40.2                       | 49.5                       | 392                        | 298                        | 314                        |
| Conductivity                             | ----       | E100/TY      | 1.0    | µS/cm    | 58.9                       | 65.9                       | 170                        | 230                        | 231                        |
| Hardness (as CaCO3), dissolved           | ----       | EC100/TY     | 0.50   | mg/L     | 25.7                       | 29.2                       | 100                        | 134                        | 122                        |
| pH                                       | ----       | E108/TY      | 0.10   | pH units | 7.44                       | 7.45                       | 7.77                       | 7.83                       | 7.84                       |
| Solids, total dissolved [TDS]            | ----       | E162/TY      | 10     | mg/L     | 58                         | 67                         | 195                        | 228                        | 236                        |
| Solids, total suspended [TSS]            | ----       | E160/TY      | 3.0    | mg/L     | 7.7                        | 14.9                       | 6.3                        | 10.1                       | 7.9                        |
| Turbidity                                | ----       | E121/TY      | 0.10   | NTU      | 6.01                       | 9.67                       | 12.9                       | 11.2                       | 11.3                       |
| Alkalinity, total (as CaCO3)             | ----       | E290/TY      | 2.0    | mg/L     | 24.9                       | 28.1                       | 91.7                       | 130                        | 124                        |
| Anions and Nutrients                     |            |              |        |          |                            |                            |                            |                            |                            |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0129 <sup>&lt;T</sup>    | 0.0134 <sup>&lt;T</sup>    | 0.0440 <sup>&lt;T</sup>    | 0.0433 <sup>&lt;T</sup>    | 0.0413 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                    | <0.0010                    | <0.0010                    | <0.0010                    | <0.0010                    |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 1.91                       | 2.48                       | 1.68                       | 3.24                       | 3.16                       |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.033                      | 0.032                      | 0.040                      | 0.048                      | 0.046                      |
| Kjeldahl nitrogen, total [TKN]           | ----       | E318/TY      | 0.050  | mg/L     | 0.477                      | 0.548                      | 1.54                       | 1.64                       | 1.64                       |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                     | <0.020                     | 0.021 <sup>&lt;T</sup>     | <0.020                     | <0.020                     |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                     | <0.010                     | <0.010                     | <0.010                     | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0011                     | 0.0013                     | 0.0295                     | 0.0490                     | 0.0489                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 2.46                       | 2.46                       | 1.46                       | 0.67                       | 0.66                       |
| Cyanides                                 |            |              |        |          |                            |                            |                            |                            |                            |
| Cyanide, free                            | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |              |        |          |                            |                            |                            |                            |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW16_SW_202<br>40802<br>SW | SW17_SW_202<br>40802<br>SW | SW15_SW_202<br>40802<br>SW | SW23_SW_202<br>40802<br>SW | SW24_SW_202<br>40802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Aug-2024<br>09:30      | 06-Aug-2024<br>10:45       | 06-Aug-2024<br>11:25       | 06-Aug-2024<br>12:10       | 06-Aug-2024<br>12:25       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-001             | TY2408638-002              | TY2408638-003              | TY2408638-004              | TY2408638-005              |                            |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                     | Result                     |                            |
| Organic / Inorganic Carbon                   |            |            |           |      |                           |                            |                            |                            |                            |                            |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT  | 0.50      | mg/L | 11.4                      | 13.1                       | 58.8                       | 52.5                       | 54.1                       |                            |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 11.5                      | 13.5                       | 54.9                       | 50.5                       | 50.7                       |                            |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                            |                            |                            |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0179 <sup>&lt;T</sup>   | 0.225                      | 0.343                      | 0.367                      | 0.275                      |                            |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00042 <sup>&lt;T</sup>  | 0.00060 <sup>&lt;T</sup>   | 0.00239 <sup>&lt;T</sup>   | 0.00282 <sup>&lt;T</sup>   | 0.00286 <sup>&lt;T</sup>   |                            |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.00808                   | 0.0102                     | 0.0180                     | 0.0204                     | 0.0191                     |                            |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | 0.000042 <sup>&lt;T</sup>  | 0.000032 <sup>&lt;T</sup>  | 0.000025 <sup>&lt;T</sup>  |                            |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                  |                            |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | <0.010                    | <0.010                     | 0.014 <sup>&lt;T</sup>     | 0.015 <sup>&lt;T</sup>     | 0.014 <sup>&lt;T</sup>     |                            |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000138 <sup>&lt;T</sup> | 0.0000246 <sup>&lt;T</sup> | 0.0000177 <sup>&lt;T</sup> | 0.0000148 <sup>&lt;T</sup> |                            |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 6.56                      | 7.87                       | 25.2                       | 31.0                       | 32.0                       |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010                 | 0.000044                   | 0.000045                   | 0.000058                   | 0.000040                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00072 <sup>&lt;T</sup>   | 0.00079 <sup>&lt;T</sup>   | 0.00128 <sup>&lt;T</sup>   | 0.00079 <sup>&lt;T</sup>   |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010                  | 0.00021 <sup>&lt;T</sup>   | 0.00043 <sup>&lt;T</sup>   | 0.00070 <sup>&lt;T</sup>   | 0.00060 <sup>&lt;T</sup>   |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00096 <sup>&lt;T</sup>  | 0.00147 <sup>&lt;T</sup>   | 0.00130 <sup>&lt;T</sup>   | 0.00124 <sup>&lt;T</sup>   | 0.00106 <sup>&lt;T</sup>   |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.074                     | 0.383                      | 1.20                       | 1.64                       | 1.56                       |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050                 | 0.000218 <sup>&lt;T</sup>  | 0.000414 <sup>&lt;T</sup>  | 0.000355 <sup>&lt;T</sup>  | 0.000320 <sup>&lt;T</sup>  |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | <0.0010                   | <0.0010                    | 0.0041 <sup>&lt;T</sup>    | 0.0045 <sup>&lt;T</sup>    | 0.0040 <sup>&lt;T</sup>    |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 2.10                      | 2.72                       | 10.1                       | 13.2                       | 12.8                       |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.00506                   | 0.0328                     | 0.0799                     | 0.163                      | 0.151                      |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                 | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>  |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000118 <sup>&lt;T</sup> | 0.000129 <sup>&lt;T</sup>  | 0.000301 <sup>&lt;T</sup>  | 0.000410 <sup>&lt;T</sup>  | 0.000362 <sup>&lt;T</sup>  |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00060 <sup>&lt;T</sup>  | 0.00103 <sup>&lt;T</sup>   | 0.00211 <sup>&lt;T</sup>   | 0.00254 <sup>&lt;T</sup>   | 0.00237 <sup>&lt;T</sup>   |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                    | <0.050                     | 0.075                      | 0.094                      | 0.098                      |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.635                     | 0.703                      | 0.754                      | 0.870                      | 0.820                      |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00159                   | 0.00222                    | 0.00173                    | 0.00232                    | 0.00202                    |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000107 <sup>&lt;T</sup> | 0.000118 <sup>&lt;T</sup>  | 0.000300 <sup>&lt;T</sup>  | 0.000333 <sup>&lt;T</sup>  | 0.000252 <sup>&lt;T</sup>  |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 1.73                      | 2.34                       | 6.17                       | 7.26                       | 6.69                       |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW16_SW_202<br>40802<br>SW | SW17_SW_202<br>40802<br>SW | SW15_SW_202<br>40802<br>SW | SW23_SW_202<br>40802<br>SW | SW24_SW_202<br>40802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Aug-2024<br>09:30      | 06-Aug-2024<br>10:45       | 06-Aug-2024<br>11:25       | 06-Aug-2024<br>12:10       | 06-Aug-2024<br>12:25       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-001             | TY2408638-002              | TY2408638-003              | TY2408638-004              | TY2408638-005              |                            |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                     | Result                     |                            |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                            |                            |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 2.22                      | 2.28                       | 2.12                       | 2.78                       | 2.84                       |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0200                    | 0.0220                     | 0.0586                     | 0.0798                     | 0.0766                     |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.00                      | 0.79                       | 1.19                       | 0.80                       | 0.65                       |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                   |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | 0.00010                    | <0.00010                   | <0.00010                   |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | 0.00031                    | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00062                   | 0.00832                    | 0.0115                     | 0.0132                     | 0.0105                     |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                   |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000069 <sup>&lt;T</sup> | 0.000088 <sup>&lt;T</sup>  | 0.000324 <sup>&lt;T</sup>  | 0.000299 <sup>&lt;T</sup>  | 0.000289 <sup>&lt;T</sup>  |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00099                    | 0.00183                    | 0.00192                    | 0.00156                    |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | 0.0050 <sup>&lt;T</sup>    | 0.0045 <sup>&lt;T</sup>    | 0.0037 <sup>&lt;T</sup>    | <0.0030                    |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                  | 0.00026                    | 0.00074                    | 0.00074                    | 0.00061                    |                            |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                            |                            |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0758 <sup>DTC</sup>     | 0.0196                     | 0.0946                     | 0.0519                     | 0.0559                     |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00042                   | 0.00051                    | 0.00203                    | 0.00248                    | 0.00244                    |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00832                   | 0.00809                    | 0.0151                     | 0.0166                     | 0.0154                     |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000040 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>   |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | <0.010                     | <0.020 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>      |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000079                 | 0.0000059                  | 0.0000178                  | 0.0000119                  | 0.0000119                  |                            |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 6.60                      | 7.47                       | 23.9                       | 32.5                       | 29.7                       |                            |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | 0.000018                  | <0.000010                  | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   |                            |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    |                            |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | 0.00028                    | 0.00045                    | 0.00039                    |                            |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00107                   | 0.00096                    | 0.00112                    | 0.00087                    | 0.00088                    |                            |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.124 <sup>DTC</sup>      | 0.095                      | 0.755                      | 1.04                       | 0.968                      |                            |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID        | SW16_SW_202<br>40802<br>SW | SW17_SW_202<br>40802<br>SW | SW15_SW_202<br>40802<br>SW | SW23_SW_202<br>40802<br>SW | SW24_SW_202<br>40802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Aug-2024<br>09:30    | 06-Aug-2024<br>10:45       | 06-Aug-2024<br>11:25       | 06-Aug-2024<br>12:10       | 06-Aug-2024<br>12:25       |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-001           | TY2408638-002              | TY2408638-003              | TY2408638-004              | TY2408638-005              |                            |
|                                              |            |            |           |      | Result                  | Result                     | Result                     | Result                     | Result                     |                            |
| Dissolved Metals                             |            |            |           |      |                         |                            |                            |                            |                            |                            |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000102 <sup>DTC</sup> | 0.000059                   | 0.000223                   | 0.000152                   | 0.000171                   |                            |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | <0.0010                 | <0.0010                    | 0.0035                     | 0.0038                     | 0.0033                     |                            |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 2.23                    | 2.56                       | 9.93                       | 12.9                       | 11.5                       |                            |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0166 <sup>DTC</sup>   | 0.0138                     | 0.0689                     | 0.138                      | 0.124                      |                            |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050              | <0.0000050                 | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>  |                            |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000106                | 0.000127                   | 0.000247                   | 0.000333                   | 0.000306                   |                            |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00066                 | 0.00063                    | 0.00156                    | 0.00202                    | 0.00181                    |                            |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050                  | <0.050                     | <0.100 <sup>DLM</sup>      | <0.100 <sup>DLM</sup>      | <0.100 <sup>DLM</sup>      |                            |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.679                   | 0.669                      | 0.700                      | 0.808                      | 0.733                      |                            |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00174                 | 0.00154                    | 0.00105                    | 0.00128                    | 0.00121                    |                            |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000104                | 0.000108                   | 0.000256                   | 0.000244                   | 0.000246                   |                            |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.82                    | 1.79                       | 5.09                       | 6.00                       | 5.46                       |                            |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010               | <0.000010                  | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   |                            |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 2.30                    | 2.28                       | 2.07                       | 2.84                       | 2.55                       |                            |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0204                  | 0.0220                     | 0.0541                     | 0.0702                     | 0.0680                     |                            |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | 0.72                    | 0.89                       | <1.00 <sup>DLM</sup>       | <1.00 <sup>DLM</sup>       | <1.00 <sup>DLM</sup>       |                            |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020                | <0.00020                   | <0.00040 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>    | <0.00040 <sup>DLM</sup>    |                            |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010               | <0.000010                  | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   |                            |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010                | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    |                            |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010                | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    |                            |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00478 <sup>DTC</sup>  | 0.00086                    | 0.00346                    | 0.00208                    | 0.00210                    |                            |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010                | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    |                            |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000066                | 0.000070                   | 0.000299                   | 0.000255                   | 0.000247                   |                            |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050                | <0.00050                   | 0.00113                    | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    |                            |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0018                  | 0.0020                     | 0.0034                     | 0.0022                     | 0.0021                     |                            |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030                | <0.00030                   | <0.00060 <sup>DLM</sup>    | <0.00060 <sup>DLM</sup>    | <0.00060 <sup>DLM</sup>    |                            |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                   | Field                      | Field                      | Field                      | Field                      |                            |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                   | Field                      | Field                      | Field                      | Field                      |                            |
| Aggregate Organics                           |            |            |           |      |                         |                            |                            |                            |                            |                            |



Analytical Results

|                                              |            |            |       |      |                             |                            |                            |                            |                            |                            |
|----------------------------------------------|------------|------------|-------|------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID            | SW16_SW_202<br>40802<br>SW | SW17_SW_202<br>40802<br>SW | SW15_SW_202<br>40802<br>SW | SW23_SW_202<br>40802<br>SW | SW24_SW_202<br>40802<br>SW |
|                                              |            |            |       |      | Client sampling date / time | 06-Aug-2024<br>09:30       | 06-Aug-2024<br>10:45       | 06-Aug-2024<br>11:25       | 06-Aug-2024<br>12:10       | 06-Aug-2024<br>12:25       |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2408638-001               | TY2408638-002              | TY2408638-003              | TY2408638-004              | TY2408638-005              |                            |
|                                              |            |            |       |      | Result                      | Result                     | Result                     | Result                     | Result                     |                            |
| Aggregate Organics                           |            |            |       |      |                             |                            |                            |                            |                            |                            |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0   | mg/L | <2.0                        | <2.0                       | <2.0                       | <2.0                       | <2.0                       |                            |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 20                          | 24                         | 121                        | 110                        | 110                        |                            |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | <1.0                        | <1.0                       | <1.0                       | <1.0                       | <1.0                       |                            |
| Radiological Parameters                      |            |            |       |      |                             |                            |                            |                            |                            |                            |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | ----                        | ----                       | ----                       | 0.01                       | <0.005                     |                            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW29A_SW_20<br>240802<br>SW | SW03_SW_202<br>40802<br>SW | SW25_SW_202<br>40802<br>SW | SW26_SW_202<br>40802<br>SW | SW21A_SW_20<br>240802<br>SW |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time                  |            |              |        |          | 06-Aug-2024<br>13:10    | 06-Aug-2024<br>13:30        | 07-Aug-2024<br>09:05       | 07-Aug-2024<br>09:30       | 07-Aug-2024<br>10:00       |                             |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2408638-006           | TY2408638-007               | TY2408638-008              | TY2408638-009              | TY2408638-010              |                             |
|                                              |            |              |        |          | Result                  | Result                      | Result                     | Result                     | Result                     |                             |
| Field Tests                                  |            |              |        |          |                         |                             |                            |                            |                            |                             |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 1.77                    | 5.77                        | 0.15                       | 2.74                       | 0                          |                             |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 6.89                    | 7.32                        | 7.02                       | 7.56                       | 7.13                       |                             |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 17.2                    | 19.7                        | 17.9                       | 17.2                       | 18.9                       |                             |
| Physical Tests                               |            |              |        |          |                         |                             |                            |                            |                            |                             |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 3.6                     | 2.0                         | <2.0                       | <2.0                       | 3.3                        |                             |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 138                     | 201                         | 94.3                       | 86.1                       | 138                        |                             |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 217                     | 283                         | 281                        | 333                        | 296                        |                             |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 124                     | 157                         | 148                        | 172                        | 148                        |                             |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.67                    | 7.92                        | 7.93                       | 8.09                       | 7.76                       |                             |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 182                     | 245                         | 207                        | 246                        | 244                        |                             |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | <3.0                    | 4.7                         | 3.1                        | 3.5                        | 4.5                        |                             |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 1.81                    | 5.33                        | 4.86                       | 5.46                       | 2.80                       |                             |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 121                     | 161                         | 143                        | 182                        | 158                        |                             |
| Anions and Nutrients                         |            |              |        |          |                         |                             |                            |                            |                            |                             |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0336 <sup>&lt;T</sup> | 0.0412 <sup>&lt;T</sup>     | 0.0188 <sup>&lt;T</sup>    | 0.0220 <sup>&lt;T</sup>    | 0.0339 <sup>&lt;T</sup>    |                             |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                     | <0.0010                    | <0.0010                    | <0.0010                    |                             |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 0.20                    | 7.12                        | 8.82                       | 7.89                       | 10.2                       |                             |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.045                   | 0.050                       | 0.050                      | 0.052                      | 0.051                      |                             |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 1.26                    | 1.55                        | 0.939                      | 0.898                      | 1.43                       |                             |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                  | <0.020                      | <0.020                     | <0.020                     | <0.020                     |                             |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                  | <0.010                      | <0.010                     | <0.010                     | <0.010                     |                             |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0089                  | 0.0445                      | 0.0072                     | 0.0062                     | 0.0650                     |                             |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | <0.30                   | 1.86                        | 6.43                       | 12.3                       | <0.30                      |                             |
| Cyanides                                     |            |              |        |          |                         |                             |                            |                            |                            |                             |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |                             |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |                             |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |                             |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                             |                            |                            |                            |                             |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 37.5                    | 41.0                        | 27.8                       | 25.3                       | 34.6                       |                             |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID     | SW29A_SW_20<br>240802<br>SW | SW03_SW_202<br>40802<br>SW | SW25_SW_202<br>40802<br>SW | SW26_SW_202<br>40802<br>SW | SW21A_SW_20<br>240802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|----------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Aug-2024<br>13:10 | 06-Aug-2024<br>13:30        | 07-Aug-2024<br>09:05       | 07-Aug-2024<br>09:30       | 07-Aug-2024<br>10:00       |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-006        | TY2408638-007               | TY2408638-008              | TY2408638-009              | TY2408638-010              |                             |
|                                              |            |            |           |      | Result               | Result                      | Result                     | Result                     | Result                     |                             |
| Organic / Inorganic Carbon                   |            |            |           |      |                      |                             |                            |                            |                            |                             |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 35.0                 | 42.4                        | 26.1                       | 25.0                       | 33.9                       |                             |
| Total Metals                                 |            |            |           |      |                      |                             |                            |                            |                            |                             |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0314               | 0.144                       | 0.117                      | 0.138                      | 0.0105 <T                  |                             |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010             | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00142 <T           | 0.00237 <T                  | 0.00145 <T                 | 0.00178 <T                 | 0.00248 <T                 |                             |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0142               | 0.0181                      | 0.0156                     | 0.0175                     | 0.0182                     |                             |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020            | <0.000020                   | <0.000020                  | <0.000020                  | <0.000020                  |                             |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050            | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  |                             |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.012 <T             | 0.017 <T                    | 0.015 <T                   | 0.017 <T                   | 0.020 <T                   |                             |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050           | 0.0000108 <T                | <0.0000050                 | <0.0000050                 | 0.0000069 <T               |                             |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 29.1                 | 36.8                        | 36.5                       | 44.8                       | 35.1                       |                             |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010            | 0.000019                    | 0.000022                   | 0.000019                   | <0.000010                  |                             |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050             | <0.00050                    | <0.00050                   | <0.00050                   | <0.00050                   |                             |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00029 <T           | 0.00056 <T                  | 0.00015 <T                 | 0.00016 <T                 | 0.00094 <T                 |                             |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050             | 0.00127 <T                  | 0.00109 <T                 | 0.00111 <T                 | <0.00050                   |                             |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.589                | 0.690                       | 0.350                      | 0.358                      | 0.843                      |                             |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050            | 0.000128 <T                 | 0.000100 <T                | 0.000085 <T                | <0.000050                  |                             |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0030 <T            | 0.0046 <T                   | 0.0035 <T                  | 0.0049 <T                  | 0.0044 <T                  |                             |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 12.0                 | 13.9                        | 12.7                       | 16.2                       | 14.3                       |                             |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.106                | 0.106                       | 0.0802                     | 0.0566                     | 1.79                       |                             |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000500 DLM       | <0.0000500 DLM              | <0.0000500 DLM             | <0.0000500 DLM             | <0.0000500 DLM             |                             |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000203 <T          | 0.000355 <T                 | 0.000436 <T                | 0.000538 <T                | 0.000329 <T                |                             |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00142 <T           | 0.00232 <T                  | 0.00128 <T                 | 0.00148 <T                 | 0.00158 <T                 |                             |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050               | 0.096                       | <0.050                     | <0.050                     | 0.125                      |                             |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.161                | 1.20                        | 1.41                       | 1.38                       | 1.37                       |                             |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00046              | 0.00230                     | 0.00184                    | 0.00164                    | 0.00239                    |                             |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000258 <T          | 0.000273 <T                 | 0.000190 <T                | 0.000228 <T                | 0.000256 <T                |                             |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 6.62                 | 6.96                        | 3.62                       | 4.23                       | 7.64                       |                             |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010            | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                             |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW29A_SW_20<br>240802<br>SW | SW03_SW_202<br>40802<br>SW | SW25_SW_202<br>40802<br>SW | SW26_SW_202<br>40802<br>SW | SW21A_SW_20<br>240802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Aug-2024<br>13:10      | 06-Aug-2024<br>13:30        | 07-Aug-2024<br>09:05       | 07-Aug-2024<br>09:30       | 07-Aug-2024<br>10:00       |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-006             | TY2408638-007               | TY2408638-008              | TY2408638-009              | TY2408638-010              |                             |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                     | Result                     |                             |
| Total Metals                                 |            |            |           |      |                           |                             |                            |                            |                            |                             |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 1.26                      | 4.59                        | 3.36                       | 4.11                       | 5.93                       |                             |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0668                    | 0.0884                      | 0.0861                     | 0.108                      | 0.0925                     |                             |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | <0.50                     | 1.14                        | 2.60                       | 4.87                       | <0.50                      |                             |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   |                             |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                             |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | <0.00210                  | 0.00491                     | 0.00399                    | 0.00584                    | <0.00090                   |                             |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000099 <sup>&lt;T</sup> | 0.000350 <sup>&lt;T</sup>   | 0.000438 <sup>&lt;T</sup>  | 0.000574 <sup>&lt;T</sup>  | 0.000097 <sup>&lt;T</sup>  |                             |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00121                     | 0.00083                    | 0.00086                    | <0.00050                   |                             |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | <0.0030                     | 0.0071 <sup>&lt;T</sup>    | 0.0053 <sup>&lt;T</sup>    | <0.0030                    |                             |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00022                   | 0.00041                     | 0.00032                    | 0.00032                    | <0.00020                   |                             |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                            |                            |                             |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0076                    | 0.0236                      | 0.0098                     | 0.0120                     | 0.0058                     |                             |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00129                   | 0.00233                     | 0.00132                    | 0.00155                    | 0.00239                    |                             |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0133                    | 0.0171                      | 0.0140                     | 0.0136                     | 0.0178                     |                             |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                   | <0.000020                  | <0.000020                  | <0.000020                  |                             |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  |                             |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.011                     | 0.015                       | 0.014                      | 0.016                      | 0.017                      |                             |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000089                   | <0.0000050                 | <0.0000050                 | 0.0000060                  |                             |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 29.4                      | 39.0                        | 37.2                       | 42.8                       | 34.9                       |                             |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                             |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                    | <0.00050                   | <0.00050                   | <0.00050                   |                             |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00025                   | 0.00046                     | <0.00010                   | 0.00010                    | 0.00092                    |                             |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00020                   | 0.00115                     | 0.00087                    | 0.00093                    | 0.00051                    |                             |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.412                     | 0.483                       | 0.153                      | 0.146                      | 0.641                      |                             |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050                 | 0.000070                    | <0.000050                  | <0.000050                  | <0.000050                  |                             |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW29A_SW_20<br>240802<br>SW | SW03_SW_202<br>40802<br>SW | SW25_SW_202<br>40802<br>SW | SW26_SW_202<br>40802<br>SW | SW21A_SW_20<br>240802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time                  |            |            |           |      | 06-Aug-2024<br>13:10      | 06-Aug-2024<br>13:30        | 07-Aug-2024<br>09:05       | 07-Aug-2024<br>09:30       | 07-Aug-2024<br>10:00       |                             |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-006             | TY2408638-007               | TY2408638-008              | TY2408638-009              | TY2408638-010              |                             |
|                                              |            |            |           |      | Result                    | Result                      | Result                     | Result                     | Result                     |                             |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |                            |                            |                             |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0031                    | 0.0044                      | 0.0035                     | 0.0050                     | 0.0048                     |                             |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 12.3                      | 14.4                        | 13.4                       | 15.9                       | 14.9                       |                             |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0923                    | 0.101                       | 0.0620                     | 0.0437                     | 1.70                       |                             |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000500 <sup>DLM</sup> | <0.0000500 <sup>DLM</sup>   | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>  |                             |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000244                  | 0.000362                    | 0.000449                   | 0.000565                   | 0.000351                   |                             |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00136                   | 0.00204                     | 0.00117                    | 0.00133                    | 0.00143                    |                             |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050                    | 0.051                       | <0.050                     | <0.050                     | 0.088                      |                             |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.166                     | 1.24                        | 1.46                       | 1.42                       | 1.45                       |                             |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00041                   | 0.00197                     | 0.00158                    | 0.00131                    | 0.00223                    |                             |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000252                  | 0.000313                    | 0.000156                   | 0.000191                   | 0.000263                   |                             |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 6.44                      | 6.50                        | 3.21                       | 3.73                       | 7.56                       |                             |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                             |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 1.31                      | 4.63                        | 3.54                       | 3.96                       | 6.08                       |                             |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0665                    | 0.0924                      | 0.0834                     | 0.108                      | 0.0944                     |                             |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | <0.50                     | 1.02                        | 2.62                       | 4.84                       | <0.50                      |                             |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   |                             |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |                             |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00040                   | 0.00124                     | <0.00150 <sup>DLM</sup>    | 0.00120                    | 0.00036                    |                             |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |                             |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000093                  | 0.000333                    | 0.000428                   | 0.000579                   | 0.000096                   |                             |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050                  | 0.00080                     | <0.00050                   | 0.00051                    | <0.00050                   |                             |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0026                    | 0.0019                      | 0.0059                     | 0.0040                     | 0.0013                     |                             |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030                  | 0.00036                     | <0.00030                   | <0.00030                   | <0.00030                   |                             |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                     | Field                       | Field                      | Field                      | Field                      |                             |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                     | Field                       | Field                      | Field                      | Field                      |                             |
| Aggregate Organics                           |            |            |           |      |                           |                             |                            |                            |                            |                             |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                      | <2.0                        | <2.0                       | <2.0                       | <2.0                       |                             |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                              |            |            |     |      | Client sample ID            | SW29A_SW_20<br>240802<br>SW | SW03_SW_202<br>40802<br>SW | SW25_SW_202<br>40802<br>SW | SW26_SW_202<br>40802<br>SW | SW21A_SW_20<br>240802<br>SW |
|------------------------------|------------|------------|-----|------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
|                              |            |            |     |      | Client sampling date / time | 06-Aug-2024<br>13:10        | 06-Aug-2024<br>13:30       | 07-Aug-2024<br>09:05       | 07-Aug-2024<br>09:30       | 07-Aug-2024<br>10:00        |
| Analyte                      | CAS Number | Method/Lab | LOR | Unit |                             | TY2408638-006               | TY2408638-007              | TY2408638-008              | TY2408638-009              | TY2408638-010               |
|                              |            |            |     |      |                             | Result                      | Result                     | Result                     | Result                     | Result                      |
| Aggregate Organics           |            |            |     |      |                             |                             |                            |                            |                            |                             |
| Chemical oxygen demand [COD] | ----       | E559-L/TY  | 10  | mg/L |                             | 73                          | 92                         | 52                         | 58                         | 82                          |
| Oil & grease (gravimetric)   | ----       | E567-L/WT  | 1.0 | mg/L |                             | <1.0                        | 2.4                        | <1.0                       | <1.0                       | 1.9                         |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                          |            |              |        |          | Client sample ID | SW02_SW_202<br>40802<br>SW | SW27_SW_202<br>40802<br>SW | FB_SW_202408<br>02<br>SW | SW06_SW_202<br>40802<br>SW | TB_SW_20240<br>802<br>SW |
|------------------------------------------|------------|--------------|--------|----------|------------------|----------------------------|----------------------------|--------------------------|----------------------------|--------------------------|
| Client sampling date / time              |            |              |        |          |                  | 07-Aug-2024<br>11:00       | 07-Aug-2024<br>11:30       | 07-Aug-2024<br>12:00     | 07-Aug-2024<br>12:00       | 07-Aug-2024<br>12:00     |
| Analyte                                  | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2408638-011              | TY2408638-012              | TY2408638-013            | TY2408638-014              | TY2408638-015            |
|                                          |            |              |        |          |                  | Result                     | Result                     | Result                   | Result                     | Result                   |
| Field Tests                              |            |              |        |          |                  |                            |                            |                          |                            |                          |
| Oxygen, dissolved, field                 | ----       | EF001/TY     | 0.01   | mg/L     |                  | 2.36                       | 1.53                       | ----                     | 2.42                       | ----                     |
| pH, field                                | ----       | EF001/TY     | 0.10   | pH units |                  | 6.75                       | 7.02                       | ----                     | 6.99                       | ----                     |
| Temperature, field                       | ----       | EF001/TY     | 0.10   | °C       |                  | 19.9                       | 16.4                       | ----                     | 18.1                       | ----                     |
| Physical Tests                           |            |              |        |          |                  |                            |                            |                          |                            |                          |
| Acidity (as CaCO3)                       | ----       | E283/TY      | 2.0    | mg/L     |                  | 3.3                        | <2.0                       | <2.0                     | 2.3                        | <2.0                     |
| Colour, true                             | ----       | E329-L/TY    | 2.0    | CU       |                  | 225                        | 92.7                       | <2.0                     | 152                        | <2.0                     |
| Conductivity                             | ----       | E100/TY      | 1.0    | µS/cm    |                  | 161                        | 371                        | 2.4                      | 279                        | <1.0                     |
| Hardness (as CaCO3), dissolved           | ----       | EC100/TY     | 0.50   | mg/L     |                  | 93.2                       | 197                        | <0.50                    | 133                        | <0.50                    |
| pH                                       | ----       | E108/TY      | 0.10   | pH units |                  | 7.51                       | 8.00                       | 6.33                     | 7.78                       | 5.48                     |
| Solids, total dissolved [TDS]            | ----       | E162/TY      | 10     | mg/L     |                  | 156                        | 262                        | <10                      | 233                        | <10                      |
| Solids, total suspended [TSS]            | ----       | E160/TY      | 3.0    | mg/L     |                  | <3.0                       | <3.0                       | <3.0                     | 5.2                        | <3.0                     |
| Turbidity                                | ----       | E121/TY      | 0.10   | NTU      |                  | 2.10                       | 3.74                       | <0.10                    | 4.38                       | <0.10                    |
| Alkalinity, total (as CaCO3)             | ----       | E290/TY      | 2.0    | mg/L     |                  | 87.5                       | 217                        | <2.0                     | 131                        | <2.0                     |
| Anions and Nutrients                     |            |              |        |          |                  |                            |                            |                          |                            |                          |
| Ammonia, total (as N)                    | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | 0.0392 <sup>&lt;T</sup>    | 0.0230 <sup>&lt;T</sup>    | <0.0050                  | 0.0340 <sup>&lt;T</sup>    | <0.0050                  |
| Ammonia, un-ionized (as N), field        | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010                    | <0.0010                    | ----                     | <0.0010                    | ----                     |
| Chloride                                 | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 0.26                       | 7.89                       | <0.10                    | 17.2                       | <0.10                    |
| Fluoride                                 | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.027                      | 0.056                      | <0.020                   | 0.048                      | <0.020                   |
| Kjeldahl nitrogen, total [TKN]           | ----       | E318/TY      | 0.050  | mg/L     |                  | 1.36                       | 1.08                       | <0.050                   | 1.22                       | <0.050                   |
| Nitrate (as N)                           | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | <0.020                     | <0.020                     | <0.020                   | <0.020                     | <0.020                   |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     |                  | <0.010                     | <0.010                     | <0.010                   | <0.010                     | <0.010                   |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     |                  | 0.0010                     | 0.0177                     | <0.0010                  | 0.0226                     | <0.0010                  |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     |                  | <0.30                      | 7.84                       | <0.30                    | <0.30                      | <0.30                    |
| Cyanides                                 |            |              |        |          |                  |                            |                            |                          |                            |                          |
| Cyanide, free                            | ----       | E339/WT      | 0.0020 | mg/L     |                  | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                  |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT      | 0.0020 | mg/L     |                  | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                  |
| Cyanide, weak acid dissociable           | ----       | E336/WT      | 0.0020 | mg/L     |                  | <0.0020                    | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                  |
| Organic / Inorganic Carbon               |            |              |        |          |                  |                            |                            |                          |                            |                          |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT    | 0.50   | mg/L     |                  | 39.9                       | 29.2                       | <0.50                    | 32.6                       | <0.50                    |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW02_SW_202<br>40802<br>SW | SW27_SW_202<br>40802<br>SW | FB_SW_202408<br>02<br>SW  | SW06_SW_202<br>40802<br>SW | TB_SW_20240<br>802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|---------------------------|----------------------------|--------------------------|
| Client sampling date / time                  |            |            |           |      | 07-Aug-2024<br>11:00      | 07-Aug-2024<br>11:30       | 07-Aug-2024<br>12:00       | 07-Aug-2024<br>12:00      | 07-Aug-2024<br>12:00       |                          |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-011             | TY2408638-012              | TY2408638-013              | TY2408638-014             | TY2408638-015              |                          |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                    | Result                     |                          |
| Organic / Inorganic Carbon                   |            |            |           |      |                           |                            |                            |                           |                            |                          |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT  | 0.50      | mg/L | 39.4                      | 28.5                       | <0.50                      | 33.2                      | <0.50                      |                          |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                           |                            |                          |
| Aluminum, total                              | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0453                    | 0.0662                     | <0.0030                    | 0.0975                    | <0.0030                    |                          |
| Antimony, total                              | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                  | 0.00010                    | <0.00010                   | <0.00010                  | <0.00010                   |                          |
| Arsenic, total                               | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00198 <sup>&lt;T</sup>  | 0.00177 <sup>&lt;T</sup>   | <0.00010                   | 0.00153 <sup>&lt;T</sup>  | <0.00010                   |                          |
| Barium, total                                | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0182                    | 0.0191                     | 0.00065                    | 0.0167                    | <0.00010                   |                          |
| Beryllium, total                             | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | 0.000022 <sup>&lt;T</sup> | <0.000020                  |                          |
| Bismuth, total                               | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                 | <0.000050                  |                          |
| Boron, total                                 | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.010                     | 0.017 <sup>&lt;T</sup>     | <0.010                     | 0.015 <sup>&lt;T</sup>    | <0.010                     |                          |
| Cadmium, total                               | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000080 <sup>&lt;T</sup> | <0.0000050                 | <0.0000050                | <0.0000050                 |                          |
| Calcium, total                               | 7440-70-2  | E420/TY    | 0.050     | mg/L | 22.4                      | 51.0                       | 0.063                      | 30.6                      | <0.050                     |                          |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | 0.000015                  | <0.000010                  |                          |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | 0.00055 <sup>&lt;T</sup>  | <0.00050                   |                          |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00067 <sup>&lt;T</sup>  | 0.00020 <sup>&lt;T</sup>   | <0.00010                   | 0.00034 <sup>&lt;T</sup>  | <0.00010                   |                          |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00080 <sup>&lt;T</sup>   | 0.00177 <sup>&lt;T</sup>   | <0.00050                  | <0.00050                   |                          |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 1.11                      | 0.275                      | <0.010                     | 0.663                     | <0.010                     |                          |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000110 <sup>&lt;T</sup> | <0.000050                  | <0.000050                  | 0.000090 <sup>&lt;T</sup> | <0.000050                  |                          |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0012 <sup>&lt;T</sup>   | 0.0049 <sup>&lt;T</sup>    | <0.0010                    | 0.0039 <sup>&lt;T</sup>   | <0.0010                    |                          |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 8.68                      | 18.6                       | 0.0102 <sup>&lt;T</sup>    | 13.9                      | <0.0050                    |                          |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.456                     | 0.0908                     | 0.00021                    | 0.119                     | <0.00010                   |                          |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000500 <sup>DLM</sup> | <0.0000500 <sup>DLM</sup>  | <0.0000050                 | <0.0000500 <sup>DLM</sup> | <0.0000050                 |                          |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000059 <sup>&lt;T</sup> | 0.000552 <sup>&lt;T</sup>  | <0.000050                  | 0.000249 <sup>&lt;T</sup> | <0.000050                  |                          |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00073 <sup>&lt;T</sup>  | 0.00175 <sup>&lt;T</sup>   | <0.00050                   | 0.00156 <sup>&lt;T</sup>  | <0.00050                   |                          |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                    | <0.050                     | <0.050                     | 0.051                     | <0.050                     |                          |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.871                     | 1.47                       | <0.050                     | 0.879                     | <0.050                     |                          |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00192                   | 0.00154                    | <0.00020                   | 0.00174                   | <0.00020                   |                          |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000173 <sup>&lt;T</sup> | 0.000264 <sup>&lt;T</sup>  | <0.000050                  | 0.000247 <sup>&lt;T</sup> | <0.000050                  |                          |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 5.71                      | 5.41                       | 0.29                       | 5.79                      | <0.10                      |                          |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                 | <0.000010                  |                          |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW02_SW_202<br>40802<br>SW | SW27_SW_202<br>40802<br>SW | FB_SW_202408<br>02<br>SW  | SW06_SW_202<br>40802<br>SW | TB_SW_20240<br>802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|---------------------------|----------------------------|--------------------------|
| Client sampling date / time                  |            |            |           |      | 07-Aug-2024<br>11:00      | 07-Aug-2024<br>11:30       | 07-Aug-2024<br>12:00       | 07-Aug-2024<br>12:00      | 07-Aug-2024<br>12:00       |                          |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-011             | TY2408638-012              | TY2408638-013              | TY2408638-014             | TY2408638-015              |                          |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                    | Result                     |                          |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                           |                            |                          |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 0.731                     | 5.29                       | 0.553                      | 9.18                      | <0.050                     |                          |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0439                    | 0.117                      | 0.00031 <sup>&lt;T</sup>   | 0.0853                    | <0.00020                   |                          |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | <0.50                     | 3.17                       | <0.50                      | 0.57                      | <0.50                      |                          |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                  | <0.00020                   |                          |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                 | <0.000010                  |                          |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                          |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                          |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00122                   | 0.00293                    | <0.00030                   | 0.00370                   | <0.00030                   |                          |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                          |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000037 <sup>&lt;T</sup> | 0.000734 <sup>&lt;T</sup>  | <0.000010                  | 0.000162 <sup>&lt;T</sup> | <0.000010                  |                          |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00077                    | <0.00050                   | 0.00073                   | <0.00050                   |                          |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | 0.0031 <sup>&lt;T</sup>   | 0.0034 <sup>&lt;T</sup>    | <0.0030                    | <0.0030                   | <0.0030                    |                          |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                  | 0.00030                    | <0.00020                   | 0.00032                   | <0.00020                   |                          |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                           |                            |                          |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0253                    | 0.0100                     | <0.0010                    | 0.0103                    | <0.0010                    |                          |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | 0.00010                    | <0.00010                   | <0.00010                  | <0.00010                   |                          |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00183                   | 0.00170                    | <0.00010                   | 0.00144                   | <0.00010                   |                          |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0177                    | 0.0180                     | 0.00085                    | 0.0154                    | <0.00010                   |                          |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | <0.000020                 | <0.000020                  |                          |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | <0.000050                 | <0.000050                  |                          |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | 0.016                      | <0.010                     | 0.015                     | <0.010                     |                          |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                 | <0.0000050                 | <0.0000050                | <0.0000050                 |                          |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 22.7                      | 47.9                       | 0.070                      | 31.2                      | <0.050                     |                          |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                 | <0.000010                  |                          |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                   | <0.00050                   | <0.00050                  | <0.00050                   |                          |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00064                   | 0.00017                    | <0.00010                   | 0.00027                   | <0.00010                   |                          |
| Copper, dissolved                            | 7440-50-8  | E421/TY    | 0.00020   | mg/L | <0.00020                  | 0.00076                    | 0.00183                    | 0.00023                   | <0.00020                   |                          |
| Iron, dissolved                              | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.802                     | 0.139                      | <0.010                     | 0.438                     | <0.010                     |                          |
| Lead, dissolved                              | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000076                  | <0.000050                  | <0.000050                  | <0.000050                 | <0.000050                  |                          |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW02_SW_202<br>40802<br>SW | SW27_SW_202<br>40802<br>SW | FB_SW_202408<br>02<br>SW  | SW06_SW_202<br>40802<br>SW | TB_SW_20240<br>802<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|---------------------------|----------------------------|--------------------------|
| Client sampling date / time                  |            |            |           |      | 07-Aug-2024<br>11:00      | 07-Aug-2024<br>11:30       | 07-Aug-2024<br>12:00       | 07-Aug-2024<br>12:00      | 07-Aug-2024<br>12:00       |                          |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2408638-011             | TY2408638-012              | TY2408638-013              | TY2408638-014             | TY2408638-015              |                          |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                    | Result                     |                          |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                           |                            |                          |
| Lithium, dissolved                           | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0014                    | 0.0053                     | <0.0010                    | 0.0041                    | <0.0010                    |                          |
| Magnesium, dissolved                         | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 8.86                      | 18.7                       | 0.0111                     | 13.5                      | <0.0050                    |                          |
| Manganese, dissolved                         | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.426                     | 0.0552                     | 0.00016                    | 0.102                     | <0.00010                   |                          |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000500 <sup>DLM</sup> | <0.0000500 <sup>DLM</sup>  | <0.0000050                 | <0.0000500 <sup>DLM</sup> | <0.0000050                 |                          |
| Molybdenum, dissolved                        | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000051                  | 0.000585                   | <0.000050                  | 0.000431 <sup>DTC</sup>   | <0.000050                  |                          |
| Nickel, dissolved                            | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00062                   | 0.00163                    | <0.00050                   | 0.00136                   | <0.00050                   |                          |
| Phosphorus, dissolved                        | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050                    | <0.050                     | <0.050                     | <0.050                    | <0.050                     |                          |
| Potassium, dissolved                         | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.910                     | 1.55                       | <0.050                     | 0.896                     | <0.050                     |                          |
| Rubidium, dissolved                          | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00176                   | 0.00145                    | <0.00020                   | 0.00146                   | <0.00020                   |                          |
| Selenium, dissolved                          | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000164                  | 0.000249                   | <0.000050                  | 0.000231                  | <0.000050                  |                          |
| Silicon, dissolved                           | 7440-21-3  | E421/TY    | 0.050     | mg/L | 5.52                      | 5.24                       | 0.268                      | 5.35                      | <0.050                     |                          |
| Silver, dissolved                            | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                 | <0.000010                  |                          |
| Sodium, dissolved                            | 7440-23-5  | E421/TY    | 0.050     | mg/L | 0.746                     | 5.36                       | 0.564                      | 9.25                      | <0.050                     |                          |
| Strontium, dissolved                         | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.0437                    | 0.115                      | 0.00037                    | 0.0837                    | <0.00020                   |                          |
| Sulfur, dissolved                            | 7704-34-9  | E421/TY    | 0.50      | mg/L | <0.50                     | 3.32                       | <0.50                      | <0.50                     | <0.50                      |                          |
| Tellurium, dissolved                         | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | <0.00020                  | <0.00020                   |                          |
| Thallium, dissolved                          | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | <0.000010                 | <0.000010                  |                          |
| Thorium, dissolved                           | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                          |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010                  | 0.00022 <sup>DTC</sup>     | 0.00028 <sup>DTC</sup>     | <0.00010                  | <0.00010                   |                          |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00066                   | 0.00103                    | <0.00030                   | 0.00093                   | <0.00030                   |                          |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | <0.00010                  | <0.00010                   |                          |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000035                  | 0.000746                   | <0.000010                  | 0.000146                  | <0.000010                  |                          |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050                  | 0.00057                    | <0.00050                   | <0.00050                  | <0.00050                   |                          |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0026                    | 0.0038                     | <0.0010                    | 0.0028                    | <0.0010                    |                          |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030                  | 0.00033                    | <0.00030                   | 0.00032                   | <0.00030                   |                          |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -    | Field                     | Field                      | Field                      | Field                     | Field                      |                          |
| Dissolved metals filtration location         | ----       | EP421/TY   | -         | -    | Field                     | Field                      | Field                      | Field                     | Field                      |                          |
| Aggregate Organics                           |            |            |           |      |                           |                            |                            |                           |                            |                          |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0       | mg/L | <2.0                      | <2.0                       | <2.0                       | <2.0                      | <2.0                       |                          |





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                              |            |            |     |      | Client sample ID            | SW02_SW_202<br>40802<br>SW | SW27_SW_202<br>40802<br>SW | FB_SW_202408<br>02<br>SW | SW06_SW_202<br>40802<br>SW | TB_SW_20240<br>802<br>SW |
|------------------------------|------------|------------|-----|------|-----------------------------|----------------------------|----------------------------|--------------------------|----------------------------|--------------------------|
|                              |            |            |     |      | Client sampling date / time | 07-Aug-2024<br>11:00       | 07-Aug-2024<br>11:30       | 07-Aug-2024<br>12:00     | 07-Aug-2024<br>12:00       | 07-Aug-2024<br>12:00     |
| Analyte                      | CAS Number | Method/Lab | LOR | Unit |                             | TY2408638-011              | TY2408638-012              | TY2408638-013            | TY2408638-014              | TY2408638-015            |
|                              |            |            |     |      |                             | Result                     | Result                     | Result                   | Result                     | Result                   |
| Aggregate Organics           |            |            |     |      |                             |                            |                            |                          |                            |                          |
| Chemical oxygen demand [COD] | ----       | E559-L/TY  | 10  | mg/L |                             | 84                         | 72                         | <10                      | 84                         | <10                      |
| Oil & grease (gravimetric)   | ----       | E567-L/WT  | 1.0 | mg/L |                             | <1.0                       | <1.0                       | <1.0                     | <1.0                       | <1.0                     |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

|                                              |            |              |        |          |                         |                             |                            |                             |                            |      |
|----------------------------------------------|------------|--------------|--------|----------|-------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID        | SW22A_SW_20<br>240802<br>SW | SW10_SW_202<br>40802<br>SW | SW28A_SW_20<br>240802<br>SW | SW20_SW_202<br>40802<br>SW | ---- |
| Client sampling date / time                  |            |              |        |          |                         | 07-Aug-2024<br>12:05        | 07-Aug-2024<br>12:35       | 07-Aug-2024<br>12:50        | 07-Aug-2024<br>13:10       | ---- |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2408638-016           | TY2408638-017               | TY2408638-018              | TY2408638-019               | -----                      |      |
|                                              |            |              |        |          | Result                  | Result                      | Result                     | Result                      | ----                       |      |
| Field Tests                                  |            |              |        |          |                         |                             |                            |                             |                            |      |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | 1.78                    | 5.3                         | 6.1                        | 2.42                        | ----                       |      |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | 7.11                    | 7.34                        | 7.29                       | 6.99                        | ----                       |      |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | 18.6                    | 18.7                        | 19.9                       | 18.1                        | ----                       |      |
| Physical Tests                               |            |              |        |          |                         |                             |                            |                             |                            |      |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | <2.0                    | <2.0                        | <2.0                       | 2.2                         | ----                       |      |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | 120                     | 175                         | 145                        | 150                         | ----                       |      |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | 311                     | 264                         | 161                        | 282                         | ----                       |      |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | 167                     | 134                         | 94.7                       | 135                         | ----                       |      |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 7.89                    | 7.95                        | 7.85                       | 7.76                        | ----                       |      |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | 266                     | 234                         | 153                        | 232                         | ----                       |      |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | <3.0                    | 5.0                         | <3.0                       | 3.8                         | ----                       |      |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | 1.65                    | 9.81                        | 1.98                       | 3.78                        | ----                       |      |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | 177                     | 125                         | 85.5                       | 128                         | ----                       |      |
| Anions and Nutrients                         |            |              |        |          |                         |                             |                            |                             |                            |      |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0258 <sup>&lt;T</sup> | 0.0320 <sup>&lt;T</sup>     | 0.0264 <sup>&lt;T</sup>    | 0.0351 <sup>&lt;T</sup>     | ----                       |      |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                 | <0.0010                     | <0.0010                    | <0.0010                     | ----                       |      |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 10.2                    | 11.9                        | 0.42                       | 17.4                        | ----                       |      |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.054                   | 0.049                       | 0.039                      | 0.048                       | ----                       |      |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | 1.23                    | 1.32                        | 1.20                       | 1.27                        | ----                       |      |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                  | <0.020                      | <0.020                     | <0.020                      | ----                       |      |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                  | <0.010                      | <0.010                     | <0.010                      | ----                       |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | 0.0500                  | 0.0288                      | <0.0010                    | 0.0219                      | ----                       |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY  | 0.30   | mg/L     | 1.42                    | 0.87                        | <0.30                      | <0.30                       | ----                       |      |
| Cyanides                                     |            |              |        |          |                         |                             |                            |                             |                            |      |
| Cyanide, free                                | ----       | E339/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                     | ----                       |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                     | ----                       |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT      | 0.0020 | mg/L     | <0.0020                 | <0.0020                     | <0.0020                    | <0.0020                     | ----                       |      |
| Organic / Inorganic Carbon                   |            |              |        |          |                         |                             |                            |                             |                            |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT    | 0.50   | mg/L     | 33.1                    | 37.3                        | 36.3                       | 34.3                        | ----                       |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID          | SW22A_SW_20<br>240802<br>SW | SW10_SW_202<br>40802<br>SW | SW28A_SW_20<br>240802<br>SW | SW20_SW_202<br>40802<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|------|
| Client sampling date / time |            |            |           |      |                           | 07-Aug-2024<br>12:05        | 07-Aug-2024<br>12:35       | 07-Aug-2024<br>12:50        | 07-Aug-2024<br>13:10       | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2408638-016             | TY2408638-017               | TY2408638-018              | TY2408638-019               | -----                      |      |
|                             |            |            |           |      | Result                    | Result                      | Result                     | Result                      | ----                       |      |
| Organic / Inorganic Carbon  |            |            |           |      |                           |                             |                            |                             |                            |      |
| Carbon, total organic [TOC] | ----       | E355-L/WT  | 0.50      | mg/L | 32.4                      | 37.0                        | 35.4                       | 33.6                        | ----                       |      |
| Total Metals                |            |            |           |      |                           |                             |                            |                             |                            |      |
| Aluminum, total             | 7429-90-5  | E420/TY    | 0.0030    | mg/L | 0.0286 <sup>&lt;T</sup>   | 0.247                       | 0.0406                     | 0.0898                      | ----                       |      |
| Antimony, total             | 7440-36-0  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                       |      |
| Arsenic, total              | 7440-38-2  | E420/TY    | 0.00010   | mg/L | 0.00185 <sup>&lt;T</sup>  | 0.00173 <sup>&lt;T</sup>    | 0.00149 <sup>&lt;T</sup>   | 0.00152 <sup>&lt;T</sup>    | ----                       |      |
| Barium, total               | 7440-39-3  | E420/TY    | 0.00010   | mg/L | 0.0130                    | 0.0164                      | 0.0112                     | 0.0162                      | ----                       |      |
| Beryllium, total            | 7440-41-7  | E420/TY    | 0.000020  | mg/L | <0.000020                 | 0.000033 <sup>&lt;T</sup>   | <0.000020                  | <0.000020                   | ----                       |      |
| Bismuth, total              | 7440-69-9  | E420/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                  | <0.000050                   | ----                       |      |
| Boron, total                | 7440-42-8  | E420/TY    | 0.010     | mg/L | 0.017 <sup>&lt;T</sup>    | 0.017 <sup>&lt;T</sup>      | 0.011 <sup>&lt;T</sup>     | 0.015 <sup>&lt;T</sup>      | ----                       |      |
| Cadmium, total              | 7440-43-9  | E420/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000060 <sup>&lt;T</sup>  | <0.0000050                 | <0.0000050                  | ----                       |      |
| Calcium, total              | 7440-70-2  | E420/TY    | 0.050     | mg/L | 37.3                      | 31.4                        | 21.1                       | 30.4                        | ----                       |      |
| Cesium, total               | 7440-46-2  | E420/TY    | 0.000010  | mg/L | <0.000010                 | 0.000034                    | <0.000010                  | 0.000013                    | ----                       |      |
| Chromium, total             | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00058 <sup>&lt;T</sup>    | <0.00050                   | <0.00050                    | ----                       |      |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00032 <sup>&lt;T</sup>  | 0.00028 <sup>&lt;T</sup>    | 0.00020 <sup>&lt;T</sup>   | 0.00032 <sup>&lt;T</sup>    | ----                       |      |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00084 <sup>&lt;T</sup>    | <0.00050                   | <0.00050                    | ----                       |      |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.323                     | 0.732                       | 0.381                      | 0.664                       | ----                       |      |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L | <0.000050                 | 0.000205 <sup>&lt;T</sup>   | <0.000050                  | 0.000081 <sup>&lt;T</sup>   | ----                       |      |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0047 <sup>&lt;T</sup>   | 0.0046 <sup>&lt;T</sup>     | 0.0023 <sup>&lt;T</sup>    | 0.0038 <sup>&lt;T</sup>     | ----                       |      |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 16.0                      | 14.1                        | 10.1                       | 13.7                        | ----                       |      |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0500                    | 0.0358                      | 0.0955                     | 0.117                       | ----                       |      |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000500 <sup>DLM</sup> | <0.0000500 <sup>DLM</sup>   | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>   | ----                       |      |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000332 <sup>&lt;T</sup> | 0.000346 <sup>&lt;T</sup>   | 0.000202 <sup>&lt;T</sup>  | 0.000241 <sup>&lt;T</sup>   | ----                       |      |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00144 <sup>&lt;T</sup>  | 0.00205 <sup>&lt;T</sup>    | 0.00102 <sup>&lt;T</sup>   | 0.00156 <sup>&lt;T</sup>    | ----                       |      |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L | 0.074                     | 0.066                       | <0.050                     | 0.060                       | ----                       |      |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L | 1.36                      | 0.901                       | 0.329                      | 0.858                       | ----                       |      |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00228                   | 0.00183                     | 0.00099                    | 0.00176                     | ----                       |      |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000249 <sup>&lt;T</sup> | 0.000238 <sup>&lt;T</sup>   | 0.000162 <sup>&lt;T</sup>  | 0.000187 <sup>&lt;T</sup>   | ----                       |      |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L | 7.05                      | 5.68                        | 2.60                       | 5.63                        | ----                       |      |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   | ----                       |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |            |           |      | Client sample ID          | SW22A_SW_20<br>240802<br>SW | SW10_SW_202<br>40802<br>SW | SW28A_SW_20<br>240802<br>SW | SW20_SW_202<br>40802<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|------|
| Client sampling date / time |            |            |           |      |                           | 07-Aug-2024<br>12:05        | 07-Aug-2024<br>12:35       | 07-Aug-2024<br>12:50        | 07-Aug-2024<br>13:10       | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2408638-016             | TY2408638-017               | TY2408638-018              | TY2408638-019               | -----                      |      |
|                             |            |            |           |      | Result                    | Result                      | Result                     | Result                      | ----                       |      |
| Total Metals                |            |            |           |      |                           |                             |                            |                             |                            |      |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | 5.70                      | 7.02                        | 0.771                      | 8.97                        | ----                       |      |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0991                    | 0.0890                      | 0.0444                     | 0.0843                      | ----                       |      |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.02                      | 0.64                        | <0.50                      | <0.50                       | ----                       |      |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                    | ----                       |      |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   | ----                       |      |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                       |      |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                       |      |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00104                   | 0.00858                     | 0.00134                    | 0.00294                     | ----                       |      |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                       |      |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000194 <sup>&lt;T</sup> | 0.000339 <sup>&lt;T</sup>   | 0.000099 <sup>&lt;T</sup>  | 0.000163 <sup>&lt;T</sup>   | ----                       |      |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | <0.00050                  | 0.00143                     | <0.00050                   | 0.00064                     | ----                       |      |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | <0.0030                     | <0.0030                    | <0.0030                     | ----                       |      |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00021                   | 0.00048                     | <0.00020                   | 0.00039                     | ----                       |      |
| Dissolved Metals            |            |            |           |      |                           |                             |                            |                             |                            |      |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0121                    | 0.0213                      | 0.0083                     | 0.0107                      | ----                       |      |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                       |      |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00192                   | 0.00160                     | 0.00135                    | 0.00138                     | ----                       |      |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0127                    | 0.0152                      | 0.0104                     | 0.0160                      | ----                       |      |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | 0.000025                    | <0.000020                  | 0.000021                    | ----                       |      |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                   | <0.000050                  | <0.000050                   | ----                       |      |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.017                     | 0.018                       | 0.011                      | 0.016                       | ----                       |      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | 0.0000060                   | <0.0000050                 | <0.0000050                  | ----                       |      |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 39.6                      | 30.7                        | 21.1                       | 31.2                        | ----                       |      |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   | ----                       |      |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00050                    | <0.00050                   | <0.00050                    | ----                       |      |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00032                   | 0.00017                     | 0.00011                    | 0.00027                     | ----                       |      |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00023                   | 0.00072                     | <0.00020                   | 0.00023                     | ----                       |      |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.231                     | 0.358                       | 0.233                      | 0.441                       | ----                       |      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050                 | 0.000090                    | <0.000050                  | <0.000050                   | ----                       |      |



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                                       |            |            |           |      | Client sample ID          | SW22A_SW_20<br>240802<br>SW | SW10_SW_202<br>40802<br>SW | SW28A_SW_20<br>240802<br>SW | SW20_SW_202<br>40802<br>SW | ---- |
|---------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|------|
| Client sampling date / time           |            |            |           |      |                           | 07-Aug-2024<br>12:05        | 07-Aug-2024<br>12:35       | 07-Aug-2024<br>12:50        | 07-Aug-2024<br>13:10       | ---- |
| Analyte                               | CAS Number | Method/Lab | LOR       | Unit | TY2408638-016             | TY2408638-017               | TY2408638-018              | TY2408638-019               | -----                      |      |
|                                       |            |            |           |      | Result                    | Result                      | Result                     | Result                      | ----                       |      |
| Dissolved Metals                      |            |            |           |      |                           |                             |                            |                             |                            |      |
| Lithium, dissolved                    | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0048                    | 0.0050                      | 0.0028                     | 0.0038                      |                            | ---- |
| Magnesium, dissolved                  | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 16.6                      | 13.9                        | 10.2                       | 13.9                        |                            | ---- |
| Manganese, dissolved                  | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0443                    | 0.0281                      | 0.0363                     | 0.104                       |                            | ---- |
| Mercury, dissolved                    | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000500 <sup>DLM</sup> | <0.0000500 <sup>DLM</sup>   | <0.0000500 <sup>DLM</sup>  | <0.0000500 <sup>DLM</sup>   |                            | ---- |
| Molybdenum, dissolved                 | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000326                  | 0.000374                    | 0.000508 <sup>DTC</sup>    | 0.000260                    |                            | ---- |
| Nickel, dissolved                     | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00148                   | 0.00168                     | 0.00092                    | 0.00137                     |                            | ---- |
| Phosphorus, dissolved                 | 7723-14-0  | E421/TY    | 0.050     | mg/L | 0.077                     | <0.050                      | <0.050                     | <0.050                      |                            | ---- |
| Potassium, dissolved                  | 7440-09-7  | E421/TY    | 0.050     | mg/L | 1.44                      | 0.899                       | 0.356                      | 0.892                       |                            | ---- |
| Rubidium, dissolved                   | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00208                   | 0.00118                     | 0.00076                    | 0.00146                     |                            | ---- |
| Selenium, dissolved                   | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000244                  | 0.000206                    | 0.000141                   | 0.000242                    |                            | ---- |
| Silicon, dissolved                    | 7440-21-3  | E421/TY    | 0.050     | mg/L | 6.71                      | 5.11                        | 2.49                       | 5.26                        |                            | ---- |
| Silver, dissolved                     | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   |                            | ---- |
| Sodium, dissolved                     | 7440-23-5  | E421/TY    | 0.050     | mg/L | 6.10                      | 7.09                        | 0.808                      | 9.18                        |                            | ---- |
| Strontium, dissolved                  | 7440-24-6  | E421/TY    | 0.00020   | mg/L | 0.100                     | 0.0925                      | 0.0459                     | 0.0883                      |                            | ---- |
| Sulfur, dissolved                     | 7704-34-9  | E421/TY    | 0.50      | mg/L | 0.78                      | 0.74                        | <0.50                      | <0.50                       |                            | ---- |
| Tellurium, dissolved                  | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                    | <0.00020                   | <0.00020                    |                            | ---- |
| Thallium, dissolved                   | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                   | <0.000010                  | <0.000010                   |                            | ---- |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    |                            | ---- |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    |                            | ---- |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030   | mg/L | 0.00060                   | 0.00302                     | 0.00032                    | 0.00073                     |                            | ---- |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                    | <0.00010                   | <0.00010                    |                            | ---- |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010  | mg/L | 0.000192                  | 0.000316                    | 0.000090                   | 0.000152                    |                            | ---- |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050   | mg/L | <0.00050                  | 0.00084                     | <0.00050                   | <0.00050                    |                            | ---- |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010    | mg/L | 0.0022                    | 0.0014                      | 0.0015                     | 0.0034                      |                            | ---- |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030   | mg/L | <0.00030                  | 0.00047                     | <0.00030                   | 0.00033                     |                            | ---- |
| Dissolved mercury filtration location | ----       | EP509/WT   | -         | -    | Field                     | Field                       | Field                      | Field                       |                            | ---- |
| Dissolved metals filtration location  | ----       | EP421/TY   | -         | -    | Field                     | Field                       | Field                      | Field                       |                            | ---- |
| Aggregate Organics                    |            |            |           |      |                           |                             |                            |                             |                            |      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0       | mg/L | <2.0                      | <2.0                        | <2.0                       | <2.0                        |                            | ---- |



Analytical Results

|                                              |            |            |       |      |                  |                             |                            |                             |                            |      |
|----------------------------------------------|------------|------------|-------|------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |       |      | Client sample ID | SW22A_SW_20<br>240802<br>SW | SW10_SW_202<br>40802<br>SW | SW28A_SW_20<br>240802<br>SW | SW20_SW_202<br>40802<br>SW | ---- |
| Client sampling date / time                  |            |            |       |      |                  | 07-Aug-2024<br>12:05        | 07-Aug-2024<br>12:35       | 07-Aug-2024<br>12:50        | 07-Aug-2024<br>13:10       | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit | TY2408638-016    | TY2408638-017               | TY2408638-018              | TY2408638-019               | -----                      |      |
|                                              |            |            |       |      | Result           | Result                      | Result                     | Result                      | ----                       |      |
| Aggregate Organics                           |            |            |       |      |                  |                             |                            |                             |                            |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10    | mg/L | 79               | 92                          | 90                         | 87                          | ----                       |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0   | mg/L | <1.0             | <1.0                        | <1.0                       | <1.0                        | ----                       |      |
| Radiological Parameters                      |            |            |       |      |                  |                             |                            |                             |                            |      |
| Radium-226                                   | 13982-63-3 | Ra-226/2l  | 0.005 | Bq/L | <0.005           | ----                        | ----                       | <0.005                      | ----                       |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## ***Test Report***

SRC Group # 2024-10083

Aug 30, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Aug-14-2024

Client P.O.: TY2408638

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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 Snook, Vicky

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

**SRC Group # 2024-10083**

Aug 30, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2024027988**  
Date Sampled: **Aug 06, 2024**  
Sample Matrix: **WATER**  
Description: **08/06/2024 11:10 SW23\_SW\_20240802 TY2408638-004**

Client PO #: **TY2408638**  
Date Received: **Aug 14, 2024**

| Analyte              | Units | Result | DL    |
|----------------------|-------|--------|-------|
| <b>Lab Section 4</b> |       |        |       |
| Radium-226*          | Bq/L  | 0.01   | 0.005 |

The temperature of the cooler was 9.3 °C upon receipt.



SRC Group # 2024-10083

Aug 30, 2024

ALS, Thunder Bay Analytical

Sample #: **2024027989** Client PO #: **TY2408638**  
Date Sampled: **Aug 06, 2024** Date Received: **Aug 14, 2024**  
Sample Matrix: **WATER**  
Description: **08/06/2024 11:25 SW24\_SW\_20240802 TY2408638-005**

| 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 9.3 °C upon receipt.

SRC Group # 2024-10083

Aug 30, 2024

ALS, Thunder Bay Analytical

|                |                                                         |                |                     |
|----------------|---------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024027990</b>                                       | Client PO #:   | <b>TY2408638</b>    |
| Date Sampled:  | <b>Aug 07, 2024</b>                                     | Date Received: | <b>Aug 14, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                            |                |                     |
| Description:   | <b>08/07/2024 11:05 SW22A_SW_20240802 TY2408638-016</b> |                |                     |

| 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 9.3 °C upon receipt.

SRC Group # 2024-10083

Aug 30, 2024

ALS, Thunder Bay Analytical

|                |                                                        |                |                     |
|----------------|--------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024027991</b>                                      | Client PO #:   | <b>TY2408638</b>    |
| Date Sampled:  | <b>Aug 07, 2024</b>                                    | Date Received: | <b>Aug 14, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                           |                |                     |
| Description:   | <b>08/07/2024 12:10 SW20_SW_20240802 TY2408638-019</b> |                |                     |

| 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 9.3 °C upon receipt.

SRC Group # 2024-10083

Aug 30, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

Project Name: Rainy River

Location: Chapple

Project Number:

Project Manager:

PO Number:

Project:

Turn Around Time (days): 10 Business Days

Shipping Company:

Shipping Date: 8/7/2024 5:21:00 PM

COC Number: ALS-455117235



Telephone : +1 807 623 6463

|                  |                               |                     |                 |                  |        | Containers    |               |   |  |  |  |  |  | Number of Containers | Comments |
|------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|---|--|--|--|--|--|----------------------|----------|
|                  |                               |                     |                 |                  |        | SW Kit        | Ra-226 Bottle |   |  |  |  |  |  |                      |          |
|                  |                               |                     |                 |                  |        | Filtered      | N             | N |  |  |  |  |  |                      |          |
|                  |                               |                     |                 |                  |        | Preservatives |               |   |  |  |  |  |  |                      |          |
| Sample Code      | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |   |  |  |  |  |  |                      |          |
| SW16_SW_20240802 | 7.07                          | 7.22                | 22.17           | 08/06/2024 09:30 | SW     | X             |               |   |  |  |  |  |  | 11                   |          |
| SW17_SW_20240802 | 6.32                          | 7.28                | 22.63           | 08/06/2024 10:45 | SW     | X             |               |   |  |  |  |  |  | 11                   |          |
| SW15_SW_20240802 | 4.57                          | 7.31                | 18.7            | 08/06/2024 11:25 | SW     | X             |               |   |  |  |  |  |  | 11                   |          |
| SW23_SW_20240802 | 5.64                          | 7.32                | 18.47           | 08/06/2024 12:10 | SW     | X             |               |   |  |  |  |  |  | 12                   |          |
| SW23_SW_20240802 | 5.64                          | 7.32                | 18.47           | 08/06/2024 12:10 | SW     |               | X             |   |  |  |  |  |  | 12                   |          |
| SW24_SW_20240802 | 6.07                          | 7.3                 | 18.93           | 08/06/2024 12:25 | SW     | X             |               |   |  |  |  |  |  | 12                   |          |

|             |                                                      |                             |      |                                                       |
|-------------|------------------------------------------------------|-----------------------------|------|-------------------------------------------------------|
| Signature   | Date/Time                                            | Shipping Details            | ATTN | Special Instructions:                                 |
| Shipped by  | 8/7/2024 5:21:00 PM                                  | Method of Shipment: Courier |      |                                                       |
| Received by | 14.5, 9.2, 10.4, 9.4, 8.7, 12.0, 10.9, 8.4, 7.7, 8.8 | On Ice: yes / no            |      |                                                       |
|             |                                                      | Shipped: Air/Ground         |      |                                                       |
|             |                                                      | Lab Name: ALS Thunder Bay   |      |                                                       |
|             |                                                      | Lab Phone:                  |      |                                                       |
|             |                                                      |                             |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |                                                      |                             |      | Email Report to:<br>rainyriver.labresults@newgold.com |

|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        |                                                                      |               |        |               |  |  |  |  |  |    |  |                      |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------------------------------------------------------|---------------|--------|---------------|--|--|--|--|--|----|--|----------------------|----------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 8/7/2024 5:21:00 PM<br><b>COC Number:</b> ALS-455117235 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><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 |        |               |  |  |  |  |  |    |  |                      |          |
| SW24_SW_20240802                                                                                                                                                                                                                                                                                                           | 6.07                          | 7.3                 | 18.93           | 08/06/2024 12:25 | SW     |                                                                      | X             |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW29A_SW_20240802                                                                                                                                                                                                                                                                                                          | 1.77                          | 6.89                | 17.2            | 08/06/2024 13:10 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW03_SW_20240802                                                                                                                                                                                                                                                                                                           | 5.77                          | 7.32                | 19.73           | 08/06/2024 13:30 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW25_SW_20240802                                                                                                                                                                                                                                                                                                           | 0.15                          | 7.02                | 17.93           | 08/07/2024 09:05 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW26_SW_20240802                                                                                                                                                                                                                                                                                                           | 2.74                          | 7.56                | 17.15           | 08/07/2024 09:30 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW21A_SW_20240802                                                                                                                                                                                                                                                                                                          | 0                             | 7.13                | 18.93           | 08/07/2024 10:00 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |

|                                           |                                             |                                                                        |             |                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------|------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signature</b><br><br><b>Shipped by</b> | <b>Date/Time</b><br><br>8/7/2024 5:21:00 PM | <b>Shipping Details</b>                                                | <b>ATTN</b> | <b>Special Instructions:</b><br><br>Email Invoice to:<br>rainyriver.accountst1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |
|                                           |                                             | Method of Shipment: Courier<br>On Ice: yes / no<br>Shipped: Air/Ground |             |                                                                                                                                                     |
| <b>Received by</b>                        |                                             | Lab Name: ALS Thunder Bay<br>Lab Phone:                                |             |                                                                                                                                                     |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 8/7/2024 5:21:00 PM<br><b>COC Number:</b> ALS-455117235 |                               |                     |                 |                  |        | Containers    |               | SW Kit | Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|--------|---------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | Filtered      |               | N      | N             |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | Preservatives |               |        |               |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        |               |               |        |               |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MNER-BE |        |               |  |  |  |  |  |    |  |                      |          |
| SW02_SW_20240802                                                                                                                                                                                                                                                                                                           | 2.36                          | 6.75                | 19.89           | 08/07/2024 11:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW27_SW_20240802                                                                                                                                                                                                                                                                                                           | 1.53                          | 7.02                | 16.35           | 08/07/2024 11:30 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| FB_SW_20240802                                                                                                                                                                                                                                                                                                             |                               |                     |                 | 08/07/2024 12:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW06_SW_20240802                                                                                                                                                                                                                                                                                                           | 2.42                          | 6.99                | 18.07           | 08/07/2024 12:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| TB_SW_20240802                                                                                                                                                                                                                                                                                                             |                               |                     |                 | 08/07/2024 12:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW22A_SW_20240802                                                                                                                                                                                                                                                                                                          | 1.78                          | 7.11                | 18.62           | 08/07/2024 12:05 | SW     | X             |               |        |               |  |  |  |  |  | 12 |  |                      |          |

| Signature   | Date/Time           | Shipping Details                        | ATTN | Special Instructions:                                 |
|-------------|---------------------|-----------------------------------------|------|-------------------------------------------------------|
| Shipped by  | 8/7/2024 5:21:00 PM | Method of Shipment: Courier             |      |                                                       |
|             |                     | On Ice: yes / no                        |      |                                                       |
| Received by |                     | Shipped: Air/Ground                     |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |                     | Lab Name: ALS Thunder Bay<br>Lab Phone: |      | Email Report to:<br>rainyriver.labresults@newgold.com |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 8/7/2024 5:21:00 PM<br><b>COC Number:</b> ALS-455117235 |                               |                     |                 |                  |        | <b>Containers</b><br><b>Filtered</b><br><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 |        |               |  |  |  |  |  |  |    |  |                      |          |
| SW22A_SW_20240802                                                                                                                                                                                                                                                                                                          | 1.78                          | 7.11                | 18.62           | 08/07/2024 12:05 | SW     |                                                              | X             |        |               |  |  |  |  |  |  | 12 |  |                      |          |
| SW10_SW_20240802                                                                                                                                                                                                                                                                                                           | 5.3                           | 7.34                | 18.7            | 08/07/2024 12:35 | SW     | X                                                            |               |        |               |  |  |  |  |  |  | 11 |  |                      |          |
| SW28A_SW_20240802                                                                                                                                                                                                                                                                                                          | 6.1                           | 7.29                | 19.89           | 08/07/2024 12:50 | SW     | X                                                            |               |        |               |  |  |  |  |  |  | 11 |  |                      |          |
| SW20_SW_20240802                                                                                                                                                                                                                                                                                                           | 2.42                          | 6.99                | 18.07           | 08/07/2024 13:10 | SW     | X                                                            |               |        |               |  |  |  |  |  |  | 12 |  |                      |          |
| SW20_SW_20240802                                                                                                                                                                                                                                                                                                           | 2.42                          | 6.99                | 18.07           | 08/07/2024 13:10 | SW     |                                                              | X             |        |               |  |  |  |  |  |  | 12 |  |                      |          |

| Signature   | Date/Time           | Shipping Details            | ATTN | Special Instructions:             |
|-------------|---------------------|-----------------------------|------|-----------------------------------|
| Shipped by  | 8/7/2024 5:21:00 PM | Method of Shipment: Courier |      |                                   |
|             |                     | On Ice: yes / no            |      |                                   |
| Received by |                     | Shipped: Air/Ground         |      | Email Invoice to:                 |
|             |                     | Lab Name: ALS Thunder Bay   |      | rainyriver.accounts1@newgold.com  |
|             |                     | Lab Phone:                  |      | Email Report to:                  |
|             |                     |                             |      | rainyriver.labresults@newgold.com |



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

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

| Signature   | Date/Time           | Shipping Details                                               | ATTN | Special Instructions:                                                                                          |
|-------------|---------------------|----------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|
| Shipped by  | 8/7/2024 5:21:00 PM | Method of Shipment: Courier<br>On Ice: yes / no                |      |                                                                                                                |
| Received by |                     | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |

# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                          |                                     |                                            |
|----------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|
| Priority/Emergency Service Requested         | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Time Sensitive Hold Time                     | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Client:                                      | New Cold - R. any River                  |                                     |                                            |
| SAMPLE RECEIPT INFORMATION                   |                                          |                                     |                                            |
| Mode of Delivery:                            | <input checked="" type="radio"/> Courier | Drop Off                            |                                            |
| Courier                                      | Manitowish                               |                                     |                                            |
| Waybill Number                               | 3303281205                               |                                     |                                            |
| Temperature                                  | 14.5, 9.2, 10.4, 9.4, 8.7                | Cooler Count                        | 10                                         |
| Cooling Method                               | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                          |                                     |                                            |
| Matrix:                                      | <input checked="" type="radio"/> Water   | Soil                                | Air                                        |
|                                              |                                          | Biota                               | Other                                      |
| DW Schedule 24 Bottles Correct?              |                                          | Yes                                 | No                                         |
| DW Metals pH Check <2                        |                                          | Yes                                 | No                                         |
| Regulation Circled, Works # present          | Yes                                      | No - Reject?                        |                                            |
| # of Bottles:                                | 12                                       | Sample Count                        | 19                                         |
| Green/white                                  | 19 R, 19 BOD                             |                                     |                                            |
| Purple/white                                 | 19 NUTS, 19 TOL, 19 DOC                  |                                     |                                            |
| Warm red/white                               | 19 TOT MET, 19 DISS. MET                 |                                     |                                            |
| Yellow/black                                 | 19 TOT Hg, 19 DISS Hg                    |                                     |                                            |
| Light blue/white                             |                                          |                                     |                                            |
| Orange/black                                 |                                          |                                     |                                            |
| Others (detail)                              | 19, CYANIDE   4 RADIUM<br>2x 19 ORG      |                                     |                                            |
| Comments on Samples and Bottles:             |                                          |                                     |                                            |
| Samples Requiring Preservation or Filtering: |                                          |                                     |                                            |
| Layout Staff Initials                        | AC                                       |                                     |                                            |
| Date and Time of Layout                      | 08-09-24   11:09                         |                                     |                                            |

| ACCOUNT INFO VERIFICATION                                        |              |          |
|------------------------------------------------------------------|--------------|----------|
| Priority/Emergency Service Requested                             | YES          | NO       |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |              |          |
| Client                                                           | Work Contact | Quote    |
| RECEIPT DETAIL                                                   |              |          |
| Project                                                          | PO           | Site/LSD |
| Overall Description Entered                                      | Yes          | NA       |
| Received date/time as per COC                                    |              |          |
| Recipients match CoC or Sample Remarks                           | Yes          | No       |
| Billing Instruction added to remarks                             | Yes          | NA       |
| Sample Remarks/Specification Doc checked                         |              |          |
| Submission Issues communicated                                   | Yes          | NA       |
| Sample Info communicated via Remarks                             | Yes          | NA       |
| VERIFICATION CHECKLIST                                           |              |          |
| Planned Event Submission                                         | Yes          | No       |
| Sample Name entered as per CoC                                   |              |          |
| Sampling Date and time entered as per CoC                        |              |          |
| Containers selected in layout order                              |              |          |
| Sales items entered from QUOTE ONLY (and/or verified as correct) |              |          |
| Field Data/EC298A removed if not on COC                          | Yes          | NA       |
| Bottle Allocation Verified                                       |              |          |
| Guideline added or auto-allocated                                |              |          |
| Due dates updated                                                |              |          |
| VALIDATION                                                       |              |          |
| Validation errors resolved?                                      | Yes          | No       |
| Internal Sublet CoC created                                      | Yes          | NA       |
| Login Comments:                                                  |              |          |
| Login Staff Initials:                                            | ANS          |          |

## CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2408640                                          | Page                    | : 1 of 3                                              |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Methyl Mercury                                     | Date Samples Received   | : 09-Aug-2024 09:26                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 13-Aug-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 03-Sep-2024 14:15                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 6                                                  |                         |                                                       |
| No. of samples analysed | : 6                                                  |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories | Position            | Laboratory Department             |
|-------------|---------------------|-----------------------------------|
| Jin Kim     | Analyst             | Metals, Burnaby, British Columbia |
| Julie Ruoho | Teamleader Wet Chem | Inorganics, Thunder Bay, Ontario  |
| Nik Perkio  | Senior Analyst      | Metals, Waterloo, Ontario         |
| Raymond Lin | Analyst             | Metals, Burnaby, British Columbia |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit | Description          |
|------|----------------------|
| -    | no units             |
| µg/L | micrograms per litre |
| mg/L | milligrams per litre |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |



Analytical Results

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |             |           |      | Client sample ID          | 1 - TEEPLE<br>CULVERT_MM_20240802<br>SW | 2 -<br>SW20_MM_20240802<br>SW | 3 -<br>SW10_MM_20240802<br>SW | 4 -<br>SW22A_MM_20240802<br>SW | 5 -<br>SW03_MM_20240802<br>SW |
|----------------------------------------------|------------|-------------|-----------|------|---------------------------|-----------------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Client sampling date / time                  |            |             |           |      | 07-Aug-2024<br>13:30      | 07-Aug-2024<br>13:10                    | 07-Aug-2024<br>12:35          | 07-Aug-2024<br>12:05          | 07-Aug-2024<br>13:30           |                               |
| Analyte                                      | CAS Number | Method/Lab  | LOR       | Unit | TY2408640-001             | TY2408640-002                           | TY2408640-003                 | TY2408640-004                 | TY2408640-005                  |                               |
|                                              |            |             |           |      | Result                    | Result                                  | Result                        | Result                        | Result                         |                               |
| Anions and Nutrients                         |            |             |           |      |                           |                                         |                               |                               |                                |                               |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | 0.52                      | ----                                    | ----                          | ----                          | ----                           |                               |
| Total Metals                                 |            |             |           |      |                           |                                         |                               |                               |                                |                               |
| Mercury, total                               | 7439-97-6  | E508/WT     | 0.0000050 | mg/L | <0.0000500 <sup>DLM</sup> | ----                                    | ----                          | ----                          | ----                           |                               |
| Dissolved Metals                             |            |             |           |      |                           |                                         |                               |                               |                                |                               |
| Mercury, dissolved                           | 7439-97-6  | E509/WT     | 0.0000050 | mg/L | <0.0000500 <sup>DLM</sup> | ----                                    | ----                          | ----                          | ----                           |                               |
| Dissolved mercury filtration location        | ----       | EP509/WT    | -         | -    | Field                     | ----                                    | ----                          | ----                          | ----                           |                               |
| Speciated Metals                             |            |             |           |      |                           |                                         |                               |                               |                                |                               |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA     | 0.000020  | µg/L | 0.00119                   | 0.000662                                | 0.000533                      | 0.000746                      | 0.000939                       |                               |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

|                                              |            |            |          |      |                             |                                   |       |       |       |      |
|----------------------------------------------|------------|------------|----------|------|-----------------------------|-----------------------------------|-------|-------|-------|------|
| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID            | 6 -<br>SW24_MM_202<br>40802<br>SW | ----  | ----  | ----  | ---- |
|                                              |            |            |          |      | Client sampling date / time | 07-Aug-2024<br>10:10              | ----  | ----  | ----  | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2408640-006               | -----                             | ----- | ----- | ----- |      |
|                                              |            |            |          |      | Result                      | ----                              | ----  | ----  | ----  |      |
| Speciated Metals                             |            |            |          |      |                             |                                   |       |       |       |      |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA    | 0.000020 | µg/L | 0.000759                    | ----                              | ----  | ----  | ----  |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

**Project Name:** Rainy River  
**Location:** Chapple  
**Project Number:**  
**Project Manager:**  
**PO Number:**  
**Project:**  
**Turn Around Time (days):** 10 Business Days  
**Shipping Company:**  
**Shipping Date:** 8/8/2023 7:26:00 AM  
**COC Number:** ALS-451203097

**Filtered**

**Preservatives**

MeHg Bottle

|             |     |
|-------------|-----|
| Merchandise | 100 |
| Utility     | 100 |
| total       | 200 |
| and         |     |

**T**

lv

MEHG-T-GCAF-VA (Methyl

HHG-TOT\_DIS-WT

Number of Containers |

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2408640**



Telephone : +1 807 623 3463

[illegible]

|                                                                                                                                              |  |                                                                                                                                                                                          |                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Drinking Water (DW) Samples</b><br><b>(client use)</b>                                                                                    |  | <b>Sample Receipt Details (ALS use only)</b>                                                                                                                                             |                                                                                                                                                                       |
| Are samples taken from a Regulated DW System?    Yes <b>X</b> No                                                                             |  | Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated |                                                                                                                                                                       |
| Are samples for human consumption / use?            Yes <b>X</b> No                                                                          |  | Submission Comments Identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                  |                                                                                                                                                                       |
| Samples from a Regulated DW System require an Authorized DW COC form                                                                         |  | 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                                                                                                                                          |
| <b>Signature</b><br><br>Shipped by                                                                                                           |  | <b>Date/Time</b><br><br>2023-08-08 7:26                                                                                                                                                  | <b>Shipping Details</b><br><br><b>Method of Shipment:</b> Courier<br><br>On Ice:    yes / no<br><b>Shipped:</b> Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |
| <b>Special Instructions:</b><br><br>Email Invoice to: rainyriver.accounts1@newgold.com<br>Email Report to: rainyriver.labresults@newgold.com |  | <b>ATTN</b>                                                                                                                                                                              |                                                                                                                                                                       |

# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                             |                  |              | ACCOUNT INFO VERIFICATION                                        |              |          |    |
|----------------------------------------------|---------------------------------------------|------------------|--------------|------------------------------------------------------------------|--------------|----------|----|
| Priority/Emergency Service Requested         |                                             | YES              | <u>NO</u>    | Priority/Emergency Service Requested                             |              | YES      | NO |
| Time Sensitive Hold Time                     |                                             | YES              | <u>NO</u>    | Confirmed all as accurate as per COC, Sample Remarks or PM       |              |          |    |
| Client:                                      | New Hold                                    |                  |              | Client                                                           | Work Contact | Quote    |    |
| SAMPLE RECEIPT INFORMATION                   |                                             |                  |              | RECEIPT DETAIL                                                   |              |          |    |
| Mode of Delivery:                            |                                             | <u>Courier</u>   | Drop Off     | Project                                                          | PO           | Site/LSD |    |
| Courier                                      |                                             | Manitowlin       |              | Overall Description Entered                                      |              | Yes      | NA |
| Waybill Number                               |                                             | 3303201205       |              | Received date/time as per COC                                    |              |          |    |
| Temperature 14.5, 9.2, 10.4, 9.4, 8.2, 12.0  |                                             | Cooler Count 10  |              | Recipients match CoC or Sample Remarks                           |              | Yes      | No |
| Cooling Method                               |                                             | None             | Ice          | Billing Instruction added to remarks                             |              | Yes      | NA |
|                                              |                                             | <u>Ice Packs</u> |              | Sample Remarks/Specification Doc checked                         |              |          |    |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                             |                  |              | VERIFICATION CHECKLIST                                           |              |          |    |
| Matrix:                                      | <u>Water</u>                                | Soil             | Air          | Biota                                                            | Other        |          |    |
| DW Schedule 24 Bottles Correct?              |                                             | Yes              | No           | Planned Event Submission                                         |              | Yes      | No |
| DW Metals pH Check <2                        |                                             | Yes              | No           | Sample Name entered as per CoC                                   |              |          |    |
| Regulation Circled, Works # present          |                                             | Yes              | No - Reject? | Sampling Date and time entered as per CoC                        |              |          |    |
| # of Bottles:                                | 3                                           | Sample Count     | 6            | Containers selected in layout order                              |              |          |    |
| Green/white                                  | 1 BOD                                       |                  |              | Sales items entered from QUOTE ONLY (and/or verified as correct) |              |          |    |
| Purple/white                                 |                                             |                  |              | Field Data/EC298A removed if not on COC                          |              | Yes      | NA |
| Warm red/white                               | Diss                                        |                  |              | Bottle Allocation Verified                                       |              |          |    |
| Yellow/black                                 | 1 <del>total</del> Hg                       |                  |              | Guideline added or auto-allocated                                |              |          |    |
| Light blue/white                             |                                             |                  |              | Due dates updated                                                |              |          |    |
| Orange/black                                 |                                             |                  |              | VALIDATION                                                       |              |          |    |
| Others (detail)                              | <del>1 x OGG AM</del><br>6x total methyl Hg |                  |              | Validation errors resolved?                                      |              | Yes      | No |
| Comments on Samples and Bottles:             |                                             |                  |              | Internal Sublet CoC created                                      |              | Yes      | NA |
| Samples Requiring Preservation or Filtering: |                                             |                  |              | Login Comments:                                                  |              |          |    |
| N/A                                          |                                             |                  |              |                                                                  |              |          |    |
| Layout Staff Initials                        |                                             | AM               |              | Login Staff Initials:                                            |              | ANS      |    |
| Date and Time of Layout                      |                                             | 09 Aug 24 1044   |              |                                                                  |              |          |    |

## CERTIFICATE OF ANALYSIS

|                                |                                                      |                                |                                                       |
|--------------------------------|------------------------------------------------------|--------------------------------|-------------------------------------------------------|
| <b>Work Order</b>              | : <b>TY2409915</b>                                   |                                |                                                       |
| <b>Client</b>                  | : <b>New Gold Inc. (Rainy River)</b>                 | <b>Laboratory</b>              | : ALS Environmental - Thunder Bay                     |
| <b>Contact</b>                 | : Garnet.Cornell@newgold.com Garnet Cornell          | <b>Account Manager</b>         | : Christine Paradis                                   |
| <b>Address</b>                 | : 24 Marr Rd.<br>Barwick Ontario Canada P0W 1A0      | <b>Address</b>                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| <b>Telephone</b>               | : 807 234 8170                                       | <b>Telephone</b>               | : +1 807 623 6463                                     |
| <b>Project</b>                 | : Surface Water                                      | <b>Date Samples Received</b>   | : 06-Sep-2024 09:19                                   |
| <b>PO</b>                      | : 4700003796                                         | <b>Date Analysis Commenced</b> | : 06-Sep-2024                                         |
| <b>C-O-C number</b>            | : ----                                               | <b>Issue Date</b>              | : 02-Oct-2024 15:55                                   |
| <b>Sampler</b>                 | : ----                                               |                                |                                                       |
| <b>Site</b>                    | : New Gold Inc. (Rainy River)                        |                                |                                                       |
| <b>Quote number</b>            | : New Gold Rainy River Project - Pick a Project 2024 |                                |                                                       |
| <b>No. of samples received</b> | : 19                                                 |                                |                                                       |
| <b>No. of samples analysed</b> | : 19                                                 |                                |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i>   | <i>Position</i>                        | <i>Laboratory Department</i>                     |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics               | Metals, Thunder Bay, Ontario                     |
| Cassandra Grzelewski | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Ghanil Moradiya      | Laboratory Assistant                   | Administration, Thunder Bay, Ontario             |
| Greg Pokocky         | Manager - Inorganics                   | Metals, Waterloo, Ontario                        |
| Greg Pokocky         | Manager - Inorganics                   | Inorganics, Waterloo, Ontario                    |
| Jon Fisher           | Production Manager, Environmental      | Inorganics, Waterloo, Ontario                    |
| Jon Fisher           | Production Manager, Environmental      | Metals, Waterloo, Ontario                        |
| Julie Ruoho          | Teamleader Wet Chem                    | Metals, Thunder Bay, Ontario                     |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Manuel Tavaratello   | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Nik Perkio           | Senior Analyst                         | Metals, Waterloo, Ontario                        |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario                 |





## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| mg/L     | milligrams per litre            |
| pH units | pH units                        |
| °C       | degrees celsius                 |
| NTU      | nephelometric turbidity units   |
| µS/cm    | microsiemens per centimetre     |
| CU       | colour units (1 cu = 1 mg/l pt) |
| -        | no units                        |
| Bq/L     | becquerels per litre            |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Qualifiers

| Qualifier | Description                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                                                                                 |
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).                                                              |
| DTMF      | Dissolved concentration exceeds total for field-filtered metals sample. Metallic contaminants may have been introduced to dissolved sample during field filtration. |
| RRV       | Reported result verified by repeat analysis.                                                                                                                        |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                             |            |                          |        |          | Client sample ID | SW16_SW_20240901 SW | SW17_SW_20240901 SW     | SW15_SW_20240901 SW     | SW23_SW_20240901 SW     | SW24_SW_20240901 SW     |
|---------------------------------------------|------------|--------------------------|--------|----------|------------------|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Client sampling date / time                 |            |                          |        |          |                  | 03-Sep-2024 08:50   | 03-Sep-2024 10:25       | 03-Sep-2024 10:55       | 03-Sep-2024 11:40       | 03-Sep-2024 12:00       |
| Analyte                                     | CAS Number | Method/Lab/Accreditation | LOR    | Unit     |                  | TY2409915-001       | TY2409915-002           | TY2409915-003           | TY2409915-004           | TY2409915-005           |
|                                             |            |                          |        |          |                  | Result              | Result                  | Result                  | Result                  | Result                  |
| Field Tests                                 |            |                          |        |          |                  |                     |                         |                         |                         |                         |
| Oxygen, dissolved, field                    | ----       | EF001/TY                 | 0.01   | mg/L     |                  | 7.23                | 5.21                    | 6.33                    | 3.96                    | 4.07                    |
| pH, field                                   | ----       | EF001/TY                 | 0.10   | pH units |                  | 7.51                | 7.48                    | 7.79                    | 7.34                    | 7.39                    |
| Temperature, field                          | ----       | EF001/TY                 | 0.10   | °C       |                  | 19.5                | 20.1                    | 19.7                    | 17.0                    | 18.0                    |
| Physical Tests                              |            |                          |        |          |                  |                     |                         |                         |                         |                         |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY                  | 2.0    | mg/L     |                  | <2.0                | 2.1                     | 2.8                     | 2.8                     | 3.0                     |
| Colour, true                                | ----       | E329-L/TY                | 2.0    | CU       |                  | 39.8                | 75.2                    | 258                     | 232                     | 252                     |
| Conductivity                                | ----       | E100/TY                  | 1.0    | µS/cm    |                  | 75.3                | 93.4                    | 236                     | 250                     | 247                     |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY                 | 0.50   | mg/L     |                  | 29.9                | 41.7                    | 134                     | 143                     | 146                     |
| pH                                          | ----       | E108/TY                  | 0.10   | pH units |                  | 6.98                | 7.10                    | 7.62                    | 7.54                    | 7.57                    |
| Solids, total dissolved [TDS]               | ----       | E162/TY                  | 10     | mg/L     |                  | 64                  | 85                      | 235                     | 229                     | 222                     |
| Solids, total suspended [TSS]               | ----       | E160/TY                  | 3.0    | mg/L     |                  | 11.9                | 7.1                     | 29.9                    | 14.7                    | 15.5                    |
| Turbidity                                   | ----       | E121/TY                  | 0.10   | NTU      |                  | 10.0                | 8.12                    | 40.0                    | 25.0                    | 26.7                    |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY                  | 2.0    | mg/L     |                  | 30.1                | 41.3                    | 131                     | 145                     | 139                     |
| Anions and Nutrients                        |            |                          |        |          |                  |                     |                         |                         |                         |                         |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY                  | 0.0050 | mg/L     |                  | <0.0050             | 0.0098 <sup>&lt;T</sup> | 0.0281 <sup>&lt;T</sup> | 0.0305 <sup>&lt;T</sup> | 0.0332 <sup>&lt;T</sup> |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY                | 0.0010 | mg/L     |                  | <0.0010             | <0.0010                 | <0.0010                 | <0.0010                 | <0.0010                 |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY             | 0.10   | mg/L     |                  | 2.52                | 2.26                    | 2.74                    | 4.06                    | 3.87                    |
| Fluoride                                    | 16984-48-8 | E235.F/TY                | 0.020  | mg/L     |                  | 0.030               | 0.032                   | 0.045                   | 0.042                   | 0.042                   |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY                  | 0.050  | mg/L     |                  | 0.360               | 0.568                   | 1.10                    | 1.26                    | 1.27                    |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY              | 0.020  | mg/L     |                  | <0.020              | <0.020                  | 0.029 <sup>&lt;T</sup>  | <0.020                  | <0.020                  |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY              | 0.010  | mg/L     |                  | <0.010              | <0.010                  | <0.010                  | <0.010                  | <0.010                  |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |                          |           |      | Client sample ID | SW16_SW_20240901_SW        | SW17_SW_20240901_SW        | SW15_SW_20240901_SW        | SW23_SW_20240901_SW        | SW24_SW_20240901_SW        |
|------------------------------------------|------------|--------------------------|-----------|------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |                          |           |      |                  | 03-Sep-2024 08:50          | 03-Sep-2024 10:25          | 03-Sep-2024 10:55          | 03-Sep-2024 11:40          | 03-Sep-2024 12:00          |
| Analyte                                  | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-001              | TY2409915-002              | TY2409915-003              | TY2409915-004              | TY2409915-005              |
|                                          |            |                          |           |      |                  | Result                     | Result                     | Result                     | Result                     | Result                     |
| Anions and Nutrients                     |            |                          |           |      |                  |                            |                            |                            |                            |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY                | 0.0010    | mg/L |                  | 0.0012                     | 0.0022                     | 0.0438                     | 0.0369                     | 0.0038                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY              | 0.30      | mg/L |                  | 3.88                       | 3.42                       | 4.48                       | 2.29                       | 2.23                       |
| Cyanides                                 |            |                          |           |      |                  |                            |                            |                            |                            |                            |
| Cyanide, free                            | ----       | E339/WT                  | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT                  | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT                  | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |                          |           |      |                  |                            |                            |                            |                            |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT                | 0.50      | mg/L |                  | 13.0                       | 17.4                       | 43.9                       | 44.3                       | 44.1                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT                | 0.50      | mg/L |                  | 12.2                       | 16.7                       | 42.7                       | 42.6                       | 44.4                       |
| Total Metals                             |            |                          |           |      |                  |                            |                            |                            |                            |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY                  | 0.0030    | mg/L |                  | 0.208                      | 0.166                      | 0.925                      | 0.584                      | 0.711                      |
| Antimony, total                          | 7440-36-0  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    |
| Arsenic, total                           | 7440-38-2  | E420/TY                  | 0.00010   | mg/L |                  | 0.00061 <sup>&lt;T</sup>   | 0.00086 <sup>&lt;T</sup>   | 0.00273 <sup>&lt;T</sup>   | 0.00280 <sup>&lt;T</sup>   | 0.00277 <sup>&lt;T</sup>   |
| Barium, total                            | 7440-39-3  | E420/TY                  | 0.00010   | mg/L |                  | 0.0105                     | 0.0113                     | 0.0286                     | 0.0202                     | 0.0210                     |
| Beryllium, total                         | 7440-41-7  | E420/TY                  | 0.000020  | mg/L |                  | <0.000020                  | <0.000020                  | 0.000060 <sup>&lt;T</sup>  | <0.000040 <sup>DLM</sup>   | 0.000043 <sup>&lt;T</sup>  |
| Bismuth, total                           | 7440-69-9  | E420/TY                  | 0.000050  | mg/L |                  | <0.000050                  | <0.000050                  | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   |
| Boron, total                             | 7440-42-8  | E420/TY                  | 0.010     | mg/L |                  | <0.010                     | <0.010                     | 0.021 <sup>&lt;T</sup>     | <0.020 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>      |
| Cadmium, total                           | 7440-43-9  | E420/TY                  | 0.0000050 | mg/L |                  | 0.0000099 <sup>&lt;T</sup> | 0.0000109 <sup>&lt;T</sup> | 0.0000338 <sup>&lt;T</sup> | 0.0000119 <sup>&lt;T</sup> | 0.0000159 <sup>&lt;T</sup> |
| Calcium, total                           | 7440-70-2  | E420/TY                  | 0.050     | mg/L |                  | 8.68                       | 11.6                       | 35.1                       | 37.6                       | 37.4                       |
| Cesium, total                            | 7440-46-2  | E420/TY                  | 0.000010  | mg/L |                  | 0.000044                   | 0.000028                   | 0.000144                   | 0.000077                   | 0.000102                   |
| Chromium, total                          | 7440-47-3  | E420/TY                  | 0.00050   | mg/L |                  | 0.00063 <sup>&lt;T</sup>   | 0.00052 <sup>&lt;T</sup>   | 0.00188 <sup>&lt;T</sup>   | 0.00130 <sup>&lt;T</sup>   | 0.00189 <sup>&lt;T</sup>   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW16_SW_20240901 SW | SW17_SW_20240901 SW | SW15_SW_20240901 SW | SW23_SW_20240901 SW | SW24_SW_20240901 SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Client sampling date / time |            |                          |           |      |                  | 03-Sep-2024 08:50   | 03-Sep-2024 10:25   | 03-Sep-2024 10:55   | 03-Sep-2024 11:40   | 03-Sep-2024 12:00   |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-001       | TY2409915-002       | TY2409915-003       | TY2409915-004       | TY2409915-005       |
|                             |            |                          |           |      |                  | Result              | Result              | Result              | Result              | Result              |
| Total Metals                |            |                          |           |      |                  |                     |                     |                     |                     |                     |
| Cobalt, total               | 7440-48-4  | E420/TY                  | 0.00010   | mg/L |                  | 0.00017 <T          | 0.00018 <T          | 0.00091 <T          | 0.00062 <T          | 0.00069 <T          |
| Copper, total               | 7440-50-8  | E420/TY                  | 0.00050   | mg/L |                  | 0.00138 <T          | 0.00150 <T          | 0.00342 <T          | 0.00257 <T          | 0.00254 <T          |
| Iron, total                 | 7439-89-6  | E420/TY                  | 0.010     | mg/L |                  | 0.304               | 0.371               | 1.74                | 1.44                | 1.67                |
| Lead, total                 | 7439-92-1  | E420/TY                  | 0.000050  | mg/L |                  | 0.000156 <T         | 0.000210 <T         | 0.000932 <T         | 0.000530 <T         | 0.000640 <T         |
| Lithium, total              | 7439-93-2  | E420/TY                  | 0.0010    | mg/L |                  | 0.0013 <T           | 0.0015 <T           | 0.0067 <T           | 0.0050 <T           | 0.0051 <T           |
| Magnesium, total            | 7439-95-4  | E420/TY                  | 0.0050    | mg/L |                  | 2.88                | 4.02                | 15.4                | 14.6                | 14.2                |
| Manganese, total            | 7439-96-5  | E420/TY                  | 0.00010   | mg/L |                  | 0.0181              | 0.0485              | 0.148               | 0.175               | 0.190               |
| Mercury, total              | 7439-97-6  | E508/WT                  | 0.0000050 | mg/L |                  | <0.0000050          | <0.0000050          | <0.0000050          | <0.0000050          | <0.0000050          |
| Molybdenum, total           | 7439-98-7  | E420/TY                  | 0.000050  | mg/L |                  | 0.000172 <T         | 0.000223 <T         | 0.000583 <T         | 0.000419 <T         | 0.000367 <T         |
| Nickel, total               | 7440-02-0  | E420/TY                  | 0.00050   | mg/L |                  | 0.00098 <T          | 0.00095 <T          | 0.00358 <T          | 0.00286 <T          | 0.00311 <T          |
| Phosphorus, total           | 7723-14-0  | E420/TY                  | 0.050     | mg/L |                  | <0.050              | <0.050              | 0.165               | 0.102               | 0.115               |
| Potassium, total            | 7440-09-7  | E420/TY                  | 0.050     | mg/L |                  | 0.865               | 0.816               | 2.08                | 1.46                | 1.50                |
| Rubidium, total             | 7440-17-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00228             | 0.00212             | 0.00371             | 0.00300             | 0.00321             |
| Selenium, total             | 7782-49-2  | E420/TY                  | 0.000050  | mg/L |                  | 0.000129 <T         | 0.000127 <T         | 0.000265 <T         | 0.000240 <T         | 0.000256 <T         |
| Silicon, total              | 7440-21-3  | E420/TY                  | 0.10      | mg/L |                  | 2.36                | 2.70                | 7.58                | 7.50                | 7.79                |
| Silver, total               | 7440-22-4  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000020 DLM       | <0.000020 DLM       | <0.000020 DLM       |
| Sodium, total               | 7440-23-5  | E420/TY                  | 0.050     | mg/L |                  | 3.35                | 3.03                | 3.44                | 3.12                | 3.06                |
| Strontium, total            | 7440-24-6  | E420/TY                  | 0.00020   | mg/L |                  | 0.0250              | 0.0287              | 0.0799              | 0.0855              | 0.0858              |
| Sulfur, total               | 7704-34-9  | E420/TY                  | 0.50      | mg/L |                  | 1.53                | 1.50                | 2.11                | 1.24                | 1.43                |
| Tellurium, total            | 13494-80-9 | E420/TY                  | 0.00020   | mg/L |                  | <0.00020            | <0.00020            | <0.00040 DLM        | <0.00040 DLM        | <0.00040 DLM        |
| Thallium, total             | 7440-28-0  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000020 DLM       | <0.000020 DLM       | <0.000020 DLM       |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW16_SW_20240901 SW | SW17_SW_20240901 SW | SW15_SW_20240901 SW | SW23_SW_20240901 SW | SW24_SW_20240901 SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Client sampling date / time |            |                          |           |      |                  | 03-Sep-2024 08:50   | 03-Sep-2024 10:25   | 03-Sep-2024 10:55   | 03-Sep-2024 11:40   | 03-Sep-2024 12:00   |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-001       | TY2409915-002       | TY2409915-003       | TY2409915-004       | TY2409915-005       |
|                             |            |                          |           |      |                  | Result              | Result              | Result              | Result              | Result              |
| Total Metals                |            |                          |           |      |                  |                     |                     |                     |                     |                     |
| Thorium, total              | 7440-29-1  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | 0.00023             | <0.00020 DLM        | <0.00020 DLM        |
| Tin, total                  | 7440-31-5  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | <0.00020 DLM        | <0.00020 DLM        | <0.00020 DLM        |
| Titanium, total             | 7440-32-6  | E420/TY                  | 0.00030   | mg/L |                  | 0.00668             | 0.00609             | 0.0313              | 0.0196              | 0.0254              |
| Tungsten, total             | 7440-33-7  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | <0.00020 DLM        | <0.00020 DLM        | <0.00020 DLM        |
| Uranium, total              | 7440-61-1  | E420/TY                  | 0.000010  | mg/L |                  | 0.000106 <T         | 0.000129 <T         | 0.000672 <T         | 0.000452 <T         | 0.000475 <T         |
| Vanadium, total             | 7440-62-2  | E420/TY                  | 0.00050   | mg/L |                  | 0.00124             | 0.00107             | 0.00425             | 0.00274             | 0.00313             |
| Zinc, total                 | 7440-66-6  | E420/TY                  | 0.0030    | mg/L |                  | <0.0030             | <0.0030             | <0.0060 DLM         | <0.0060 DLM         | <0.0060 DLM         |
| Zirconium, total            | 7440-67-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00030             | 0.00029             | 0.00134             | 0.00085             | 0.00090             |
| Dissolved Metals            |            |                          |           |      |                  |                     |                     |                     |                     |                     |
| Aluminum, dissolved         | 7429-90-5  | E421/TY                  | 0.0010    | mg/L |                  | 0.0177              | 0.0243              | 0.0518              | 0.0402              | 0.0511              |
| Antimony, dissolved         | 7440-36-0  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | <0.00020 DLM        | <0.00020 DLM        | <0.00020 DLM        |
| Arsenic, dissolved          | 7440-38-2  | E421/TY                  | 0.00010   | mg/L |                  | 0.00048             | 0.00072             | 0.00203             | 0.00226             | 0.00229             |
| Barium, dissolved           | 7440-39-3  | E421/TY                  | 0.00010   | mg/L |                  | 0.00832             | 0.00928             | 0.0180              | 0.0154              | 0.0160              |
| Beryllium, dissolved        | 7440-41-7  | E421/TY                  | 0.000020  | mg/L |                  | <0.000020           | <0.000020           | <0.000040 DLM       | <0.000040 DLM       | <0.000040 DLM       |
| Bismuth, dissolved          | 7440-69-9  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050           | <0.000050           | <0.000100 DLM       | <0.000100 DLM       | <0.000100 DLM       |
| Boron, dissolved            | 7440-42-8  | E421/TY                  | 0.010     | mg/L |                  | <0.010              | <0.010              | <0.020 DLM          | <0.020 DLM          | <0.020 DLM          |
| Cadmium, dissolved          | 7440-43-9  | E421/TY                  | 0.0000050 | mg/L |                  | 0.0000072           | 0.0000062           | 0.0000119           | <0.0000100 DLM      | <0.0000100 DLM      |
| Calcium, dissolved          | 7440-70-2  | E421/TY                  | 0.050     | mg/L |                  | 8.06                | 11.0                | 31.1                | 35.3                | 35.2                |
| Cesium, dissolved           | 7440-46-2  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000020 DLM       | <0.000020 DLM       | <0.000020 DLM       |
| Chromium, dissolved         | 7440-47-3  | E421/TY                  | 0.00050   | mg/L |                  | <0.00050            | <0.00050            | <0.00100 DLM        | <0.00100 DLM        | <0.00100 DLM        |
| Cobalt, dissolved           | 7440-48-4  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | 0.00034             | 0.00029             | 0.00031             |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW16_SW_20240901 SW | SW17_SW_20240901 SW | SW15_SW_20240901 SW      | SW23_SW_20240901 SW      | SW24_SW_20240901 SW      |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------|---------------------|--------------------------|--------------------------|--------------------------|
| Client sampling date / time |            |                          |           |      |                  | 03-Sep-2024 08:50   | 03-Sep-2024 10:25   | 03-Sep-2024 10:55        | 03-Sep-2024 11:40        | 03-Sep-2024 12:00        |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-001       | TY2409915-002       | TY2409915-003            | TY2409915-004            | TY2409915-005            |
|                             |            |                          |           |      |                  | Result              | Result              | Result                   | Result                   | Result                   |
| Dissolved Metals            |            |                          |           |      |                  |                     |                     |                          |                          |                          |
| Copper, dissolved           | 7440-50-8  | E421/TY                  | 0.00020   | mg/L |                  | 0.00120             | 0.00113             | 0.00255                  | 0.00212                  | 0.00183                  |
| Iron, dissolved             | 7439-89-6  | E421/TY                  | 0.010     | mg/L |                  | 0.059               | 0.151               | 0.445                    | 0.570                    | 0.643                    |
| Lead, dissolved             | 7439-92-1  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050           | <0.000050           | 0.000217                 | 0.000201                 | 0.000207                 |
| Lithium, dissolved          | 7439-93-2  | E421/TY                  | 0.0010    | mg/L |                  | <0.0010             | <0.0010             | 0.0054                   | 0.0042                   | 0.0046                   |
| Magnesium, dissolved        | 7439-95-4  | E421/TY                  | 0.0050    | mg/L |                  | 2.37                | 3.46                | 13.7                     | 13.3                     | 14.1                     |
| Manganese, dissolved        | 7439-96-5  | E421/TY                  | 0.00010   | mg/L |                  | 0.00249             | 0.0306              | 0.0739                   | 0.141                    | 0.146                    |
| Mercury, dissolved          | 7439-97-6  | E509/WT                  | 0.0000050 | mg/L |                  | <0.0000050          | <0.0000050          | <0.0000050               | <0.0000050               | <0.0000050               |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY                  | 0.000050  | mg/L |                  | 0.000162            | 0.000186            | 0.000551                 | 0.000335                 | 0.000356                 |
| Nickel, dissolved           | 7440-02-0  | E421/TY                  | 0.00050   | mg/L |                  | 0.00056             | 0.00067             | 0.00212                  | 0.00195                  | 0.00206                  |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY                  | 0.050     | mg/L |                  | <0.050              | <0.050              | <0.100 <sup>DLM</sup>    | <0.100 <sup>DLM</sup>    | <0.100 <sup>DLM</sup>    |
| Potassium, dissolved        | 7440-09-7  | E421/TY                  | 0.050     | mg/L |                  | 0.720               | 0.705               | 1.63                     | 1.29                     | 1.28                     |
| Rubidium, dissolved         | 7440-17-7  | E421/TY                  | 0.00020   | mg/L |                  | 0.00164             | 0.00158             | 0.00162                  | 0.00148                  | 0.00130                  |
| Selenium, dissolved         | 7782-49-2  | E421/TY                  | 0.000050  | mg/L |                  | 0.000091            | 0.000117            | 0.000276                 | 0.000205                 | 0.000251                 |
| Silicon, dissolved          | 7440-21-3  | E421/TY                  | 0.050     | mg/L |                  | 1.78                | 2.26                | 5.24                     | 5.91                     | 6.09                     |
| Silver, dissolved           | 7440-22-4  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup> |
| Sodium, dissolved           | 7440-23-5  | E421/TY                  | 0.050     | mg/L |                  | 3.12                | 3.00                | 3.32                     | 2.97                     | 3.02                     |
| Strontium, dissolved        | 7440-24-6  | E421/TY                  | 0.00020   | mg/L |                  | 0.0246              | 0.0276              | 0.0727                   | 0.0788                   | 0.0776                   |
| Sulfur, dissolved           | 7704-34-9  | E421/TY                  | 0.50      | mg/L |                  | 1.37                | 1.27                | 2.04                     | 1.18                     | 1.23                     |
| Tellurium, dissolved        | 13494-80-9 | E421/TY                  | 0.00020   | mg/L |                  | <0.00020            | <0.00020            | <0.00040 <sup>DLM</sup>  | <0.00040 <sup>DLM</sup>  | <0.00040 <sup>DLM</sup>  |
| Thallium, dissolved         | 7440-28-0  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup> | <0.000020 <sup>DLM</sup> |
| Thorium, dissolved          | 7440-29-1  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>  | <0.00020 <sup>DLM</sup>  |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |                          |          |      | Client sample ID | SW16_SW_20240901_SW     | SW17_SW_20240901_SW | SW15_SW_20240901_SW     | SW23_SW_20240901_SW     | SW24_SW_20240901_SW     |
|---------------------------------------|------------|--------------------------|----------|------|------------------|-------------------------|---------------------|-------------------------|-------------------------|-------------------------|
| Client sampling date / time           |            |                          |          |      |                  | 03-Sep-2024 08:50       | 03-Sep-2024 10:25   | 03-Sep-2024 10:55       | 03-Sep-2024 11:40       | 03-Sep-2024 12:00       |
| Analyte                               | CAS Number | Method/Lab/Accreditation | LOR      | Unit |                  | TY2409915-001           | TY2409915-002       | TY2409915-003           | TY2409915-004           | TY2409915-005           |
|                                       |            |                          |          |      |                  | Result                  | Result              | Result                  | Result                  | Result                  |
| Dissolved Metals                      |            |                          |          |      |                  |                         |                     |                         |                         |                         |
| Tin, dissolved                        | 7440-31-5  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                | <0.00010            | <0.00020 <sup>DLM</sup> | <0.00020 <sup>DLM</sup> | <0.00020 <sup>DLM</sup> |
| Titanium, dissolved                   | 7440-32-6  | E421/TY                  | 0.00030  | mg/L |                  | <0.00150 <sup>DLM</sup> | 0.00148             | 0.0104                  | 0.00384                 | 0.00465                 |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                | <0.00010            | <0.00020 <sup>DLM</sup> | <0.00020 <sup>DLM</sup> | <0.00020 <sup>DLM</sup> |
| Uranium, dissolved                    | 7440-61-1  | E421/TY                  | 0.000010 | mg/L |                  | 0.000082                | 0.000114            | 0.000558                | 0.000411                | 0.000419                |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY                  | 0.00050  | mg/L |                  | <0.00050                | 0.00052             | 0.00157                 | 0.00111                 | 0.00121                 |
| Zinc, dissolved                       | 7440-66-6  | E421/TY                  | 0.0010   | mg/L |                  | 0.0016                  | 0.0019              | <0.0020 <sup>DLM</sup>  | 0.0023                  | <0.0020 <sup>DLM</sup>  |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY                  | 0.00030  | mg/L |                  | <0.00030                | <0.00030            | 0.00098                 | 0.00064                 | 0.00091                 |
| Dissolved mercury filtration location | ----       | EP509/WT                 | -        | -    |                  | Field                   | Field               | Field                   | Field                   | Field                   |
| Dissolved metals filtration location  | ----       | EP421/TY                 | -        | -    |                  | Field                   | Field               | Field                   | Field                   | Field                   |
| Aggregate Organics                    |            |                          |          |      |                  |                         |                     |                         |                         |                         |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY                  | 2.0      | mg/L |                  | <2.0                    | <2.0                | 3.7                     | <2.0                    | <2.0                    |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY                | 10       | mg/L |                  | 26                      | 38                  | 103                     | 102                     | 105                     |
| Oil & grease (gravimetric)            | ----       | E567-L/WT                | 1.0      | mg/L |                  | <1.0                    | <1.0                | <1.0                    | <1.0                    | 1.9                     |
| Radiological Parameters               |            |                          |          |      |                  |                         |                     |                         |                         |                         |
| Radium-226                            | 13982-63-3 | Ra-226/2I                | 0.005    | Bq/L |                  | ----                    | ----                | ----                    | 0.02                    | 0.007                   |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.





## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                             |            |                          |        |          | Client sample ID | SW29A_SW_2024<br>0901<br>SW | SW20_SW_202409<br>01<br>SW | SW28A_SW_2024<br>0901<br>SW | SW10_SW_2024090<br>1<br>SW | SW03_SW_202409<br>01<br>SW |
|---------------------------------------------|------------|--------------------------|--------|----------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time                 |            |                          |        |          |                  | 03-Sep-2024 12:45           | 03-Sep-2024 14:30          | 03-Sep-2024 14:50           | 03-Sep-2024 15:15          | 03-Sep-2024 15:40          |
| Analyte                                     | CAS Number | Method/Lab/Accreditation | LOR    | Unit     |                  | TY2409915-006               | TY2409915-007              | TY2409915-008               | TY2409915-009              | TY2409915-010              |
|                                             |            |                          |        |          |                  | Result                      | Result                     | Result                      | Result                     | Result                     |
| Field Tests                                 |            |                          |        |          |                  |                             |                            |                             |                            |                            |
| Oxygen, dissolved, field                    | ----       | EF001/TY                 | 0.01   | mg/L     |                  | 0.5                         | 2.07                       | 5.72                        | 6.13                       | 1.04                       |
| pH, field                                   | ----       | EF001/TY                 | 0.10   | pH units |                  | 7.05                        | 7.12                       | 7.60                        | 7.54                       | 7.32                       |
| Temperature, field                          | ----       | EF001/TY                 | 0.10   | °C       |                  | 15.0                        | 15.6                       | 15.4                        | 19.3                       | 17.6                       |
| Physical Tests                              |            |                          |        |          |                  |                             |                            |                             |                            |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY                  | 2.0    | mg/L     |                  | 5.4                         | 2.8                        | <2.0                        | <2.0                       | <2.0                       |
| Colour, true                                | ----       | E329-L/TY                | 2.0    | CU       |                  | 101                         | 113                        | 54.4                        | 115                        | 119                        |
| Conductivity                                | ----       | E100/TY                  | 1.0    | µS/cm    |                  | 256                         | 309                        | 294                         | 315                        | 317                        |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY                 | 0.50   | mg/L     |                  | 145                         | 152                        | 169                         | 162                        | 168                        |
| pH                                          | ----       | E108/TY                  | 0.10   | pH units |                  | 7.32                        | 7.59                       | 7.85                        | 7.74                       | 7.65                       |
| Solids, total dissolved [TDS]               | ----       | E162/TY                  | 10     | mg/L     |                  | 214                         | 229                        | 196                         | 237                        | 246                        |
| Solids, total suspended [TSS]               | ----       | E160/TY                  | 3.0    | mg/L     |                  | 8.1                         | <3.0                       | 6.1                         | 5.5                        | 9.3                        |
| Turbidity                                   | ----       | E121/TY                  | 0.10   | NTU      |                  | 6.56                        | 2.31                       | 4.23                        | 6.79                       | 6.43                       |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY                  | 2.0    | mg/L     |                  | 189                         | 184                        | 230                         | 165                        | 190                        |
| Anions and Nutrients                        |            |                          |        |          |                  |                             |                            |                             |                            |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY                  | 0.0050 | mg/L     |                  | 0.0130 <sup>&lt;T</sup>     | 0.0278 <sup>&lt;T</sup>    | 0.0169 <sup>&lt;T</sup>     | 0.0190 <sup>&lt;T</sup>    | 0.0174 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY                | 0.0010 | mg/L     |                  | <0.0010                     | <0.0010                    | <0.0010                     | <0.0010                    | <0.0010                    |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY             | 0.10   | mg/L     |                  | 0.46                        | 16.9                       | 0.48                        | 13.4                       | 8.64                       |
| Fluoride                                    | 16984-48-8 | E235.F/TY                | 0.020  | mg/L     |                  | 0.040                       | 0.042                      | 0.050                       | 0.042                      | 0.048                      |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY                  | 0.050  | mg/L     |                  | 1.17                        | 1.21                       | 0.758                       | 1.15                       | 1.27                       |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY              | 0.020  | mg/L     |                  | <0.020                      | <0.020                     | <0.020                      | <0.020                     | <0.020                     |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY              | 0.010  | mg/L     |                  | <0.010                      | <0.010                     | <0.010                      | <0.010                     | <0.010                     |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |                          |           |      | Client sample ID | SW29A_SW_2024<br>0901<br>SW | SW20_SW_202409<br>01<br>SW | SW28A_SW_2024<br>0901<br>SW | SW10_SW_2024090<br>1<br>SW | SW03_SW_202409<br>01<br>SW |
|------------------------------------------|------------|--------------------------|-----------|------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |                          |           |      |                  | 03-Sep-2024 12:45           | 03-Sep-2024 14:30          | 03-Sep-2024 14:50           | 03-Sep-2024 15:15          | 03-Sep-2024 15:40          |
| Analyte                                  | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-006               | TY2409915-007              | TY2409915-008               | TY2409915-009              | TY2409915-010              |
|                                          |            |                          |           |      |                  | Result                      | Result                     | Result                      | Result                     | Result                     |
| Anions and Nutrients                     |            |                          |           |      |                  |                             |                            |                             |                            |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY                | 0.0010    | mg/L |                  | 0.0027                      | 0.0142                     | 0.0049                      | 0.0270                     | 0.0329                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY              | 0.30      | mg/L |                  | <0.30                       | 0.47                       | 1.19                        | 2.52                       | 3.34                       |
| Cyanides                                 |            |                          |           |      |                  |                             |                            |                             |                            |                            |
| Cyanide, free                            | ----       | E339/WT                  | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT                  | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT                  | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |                          |           |      |                  |                             |                            |                             |                            |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT                | 0.50      | mg/L |                  | 32.1                        | 30.0                       | 22.2                        | 31.0                       | 36.1                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT                | 0.50      | mg/L |                  | 31.4                        | 31.3                       | 20.0                        | 28.2                       | 33.5                       |
| Total Metals                             |            |                          |           |      |                  |                             |                            |                             |                            |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY                  | 0.0030    | mg/L |                  | 0.143                       | 0.0589                     | 0.0739                      | 0.129                      | 0.185                      |
| Antimony, total                          | 7440-36-0  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   | 0.00014 <T                 |
| Arsenic, total                           | 7440-38-2  | E420/TY                  | 0.00010   | mg/L |                  | 0.00121 <T                  | 0.00129 <T                 | 0.00106 <T                  | 0.00173 <T                 | 0.00214 <T                 |
| Barium, total                            | 7440-39-3  | E420/TY                  | 0.00010   | mg/L |                  | 0.0172                      | 0.0140                     | 0.0156                      | 0.0185                     | 0.0185                     |
| Beryllium, total                         | 7440-41-7  | E420/TY                  | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                  | <0.000020                   | <0.000020                  | 0.000021 <T                |
| Bismuth, total                           | 7440-69-9  | E420/TY                  | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY                  | 0.010     | mg/L |                  | 0.012 <T                    | 0.016 <T                   | 0.013 <T                    | 0.025 <T                   | 0.018 <T                   |
| Cadmium, total                           | 7440-43-9  | E420/TY                  | 0.0000050 | mg/L |                  | 0.0000070 <T                | <0.0000050                 | <0.0000050                  | 0.0000070 <T               | 0.0000080 <T               |
| Calcium, total                           | 7440-70-2  | E420/TY                  | 0.050     | mg/L |                  | 36.2                        | 36.7                       | 38.4                        | 37.2                       | 41.5                       |
| Cesium, total                            | 7440-46-2  | E420/TY                  | 0.000010  | mg/L |                  | 0.000025                    | <0.000010                  | 0.000015                    | 0.000016                   | 0.000026                   |
| Chromium, total                          | 7440-47-3  | E420/TY                  | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050                   |



## Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW29A_SW_2024<br>0901<br>SW | SW20_SW_202409<br>01<br>SW | SW28A_SW_2024<br>0901<br>SW | SW10_SW_2024090<br>1<br>SW | SW03_SW_202409<br>01<br>SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |                          |           |      |                  | 03-Sep-2024 12:45           | 03-Sep-2024 14:30          | 03-Sep-2024 14:50           | 03-Sep-2024 15:15          | 03-Sep-2024 15:40          |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-006               | TY2409915-007              | TY2409915-008               | TY2409915-009              | TY2409915-010              |
|                             |            |                          |           |      |                  | Result                      | Result                     | Result                      | Result                     | Result                     |
| <b>Total Metals</b>         |            |                          |           |      |                  |                             |                            |                             |                            |                            |
| Cobalt, total               | 7440-48-4  | E420/TY                  | 0.00010   | mg/L |                  | 0.00042 <T                  | 0.00024 <T                 | 0.00024 <T                  | 0.00025 <T                 | 0.00035 <T                 |
| Copper, total               | 7440-50-8  | E420/TY                  | 0.00050   | mg/L |                  | 0.00050                     | <0.00050                   | 0.00086 <T                  | 0.00092 <T                 | 0.00088 <T                 |
| Iron, total                 | 7439-89-6  | E420/TY                  | 0.010     | mg/L |                  | 0.551                       | 0.398                      | 0.247                       | 0.446                      | 0.472                      |
| Lead, total                 | 7439-92-1  | E420/TY                  | 0.000050  | mg/L |                  | 0.000096 <T                 | <0.000050                  | <0.000050                   | 0.000126 <T                | 0.000102 <T                |
| Lithium, total              | 7439-93-2  | E420/TY                  | 0.0010    | mg/L |                  | 0.0040 <T                   | 0.0048 <T                  | 0.0053 <T                   | 0.0063 <T                  | 0.0054 <T                  |
| Magnesium, total            | 7439-95-4  | E420/TY                  | 0.0050    | mg/L |                  | 15.2                        | 15.7                       | 17.8                        | 16.2                       | 16.3                       |
| Manganese, total            | 7439-96-5  | E420/TY                  | 0.00010   | mg/L |                  | 0.268                       | 0.103                      | 0.0898                      | 0.0403                     | 0.107                      |
| Mercury, total              | 7439-97-6  | E508/WT                  | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY                  | 0.000050  | mg/L |                  | 0.000159 <T                 | 0.000248 <T                | 0.000476 <T                 | 0.000622 <T                | 0.000418 <T                |
| Nickel, total               | 7440-02-0  | E420/TY                  | 0.00050   | mg/L |                  | 0.00153 <T                  | 0.00134 <T                 | 0.00132 <T                  | 0.00197 <T                 | 0.00202 <T                 |
| Phosphorus, total           | 7723-14-0  | E420/TY                  | 0.050     | mg/L |                  | <0.050                      | <0.050                     | <0.050                      | 0.080                      | 0.089                      |
| Potassium, total            | 7440-09-7  | E420/TY                  | 0.050     | mg/L |                  | 0.232                       | 1.63                       | 0.533                       | 2.42                       | 1.78                       |
| Rubidium, total             | 7440-17-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00076                     | 0.00234                    | 0.00106                     | 0.00234                    | 0.00234                    |
| Selenium, total             | 7782-49-2  | E420/TY                  | 0.000050  | mg/L |                  | 0.000207 <T                 | 0.000176 <T                | 0.000138 <T                 | 0.000170 <T                | 0.000190 <T                |
| Silicon, total              | 7440-21-3  | E420/TY                  | 0.10      | mg/L |                  | 8.40                        | 4.80                       | 4.21                        | 5.26                       | 6.90                       |
| Silver, total               | 7440-22-4  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY                  | 0.050     | mg/L |                  | 1.26                        | 8.90                       | 1.71                        | 8.45                       | 5.07                       |
| Strontium, total            | 7440-24-6  | E420/TY                  | 0.00020   | mg/L |                  | 0.0852                      | 0.0912                     | 0.0913                      | 0.112                      | 0.105                      |
| Sulfur, total               | 7704-34-9  | E420/TY                  | 0.50      | mg/L |                  | <0.50                       | 0.53                       | 0.85                        | 1.65                       | 2.01                       |
| Tellurium, total            | 13494-80-9 | E420/TY                  | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                   | <0.00020                    | <0.00020                   | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                   | 0.000019 <T                | <0.000010                  |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW29A_SW_2024<br>0901<br>SW | SW20_SW_202409<br>01<br>SW | SW28A_SW_2024<br>0901<br>SW | SW10_SW_2024090<br>1<br>SW | SW03_SW_202409<br>01<br>SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |                          |           |      |                  | 03-Sep-2024 12:45           | 03-Sep-2024 14:30          | 03-Sep-2024 14:50           | 03-Sep-2024 15:15          | 03-Sep-2024 15:40          |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-006               | TY2409915-007              | TY2409915-008               | TY2409915-009              | TY2409915-010              |
|                             |            |                          |           |      |                  | Result                      | Result                     | Result                      | Result                     | Result                     |
| <b>Total Metals</b>         |            |                          |           |      |                  |                             |                            |                             |                            |                            |
| Thorium, total              | 7440-29-1  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | 0.00010                    | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY                  | 0.00030   | mg/L |                  | 0.00427                     | 0.00229                    | 0.00231                     | 0.00422                    | 0.00638                    |
| Tungsten, total             | 7440-33-7  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY                  | 0.000010  | mg/L |                  | 0.000204 <sup>&lt;T</sup>   | 0.000241 <sup>&lt;T</sup>  | 0.000719 <sup>&lt;T</sup>   | 0.000463 <sup>&lt;T</sup>  | 0.000444 <sup>&lt;T</sup>  |
| Vanadium, total             | 7440-62-2  | E420/TY                  | 0.00050   | mg/L |                  | 0.00077                     | 0.00058                    | 0.00065                     | 0.00125                    | 0.00125                    |
| Zinc, total                 | 7440-66-6  | E420/TY                  | 0.0030    | mg/L |                  | <0.0030                     | <0.0030                    | <0.0030                     | <0.0030                    | <0.0030                    |
| Zirconium, total            | 7440-67-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00026                     | 0.00028                    | 0.00024                     | 0.00041                    | 0.00042                    |
| <b>Dissolved Metals</b>     |            |                          |           |      |                  |                             |                            |                             |                            |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY                  | 0.0010    | mg/L |                  | 0.0065                      | 0.0056                     | <0.0050 <sup>DLM</sup>      | 0.0107                     | 0.0103                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00050 <sup>DLM</sup>     | <0.00050 <sup>DLM</sup>    | <0.00020 <sup>DLM</sup>    |
| Arsenic, dissolved          | 7440-38-2  | E421/TY                  | 0.00010   | mg/L |                  | 0.00107                     | 0.00117                    | 0.00102                     | 0.00153                    | 0.00192                    |
| Barium, dissolved           | 7440-39-3  | E421/TY                  | 0.00010   | mg/L |                  | 0.0155                      | 0.0134                     | 0.0147                      | 0.0182                     | 0.0175                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY                  | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                  | <0.000100 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   | <0.000040 <sup>DLM</sup>   |
| Bismuth, dissolved          | 7440-69-9  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                  | <0.000250 <sup>DLM</sup>    | <0.000250 <sup>DLM</sup>   | <0.000100 <sup>DLM</sup>   |
| Boron, dissolved            | 7440-42-8  | E421/TY                  | 0.010     | mg/L |                  | 0.012                       | 0.016                      | <0.050 <sup>DLM</sup>       | <0.050 <sup>DLM</sup>      | <0.020 <sup>DLM</sup>      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY                  | 0.0000050 | mg/L |                  | 0.0000069                   | <0.0000050                 | <0.0000250 <sup>DLM</sup>   | <0.0000250 <sup>DLM</sup>  | <0.0000100 <sup>DLM</sup>  |
| Calcium, dissolved          | 7440-70-2  | E421/TY                  | 0.050     | mg/L |                  | 33.8                        | 35.5                       | 38.8                        | 37.6                       | 40.7                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000050 <sup>DLM</sup>    | <0.000050 <sup>DLM</sup>   | <0.000020 <sup>DLM</sup>   |
| Chromium, dissolved         | 7440-47-3  | E421/TY                  | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                   | <0.00250 <sup>DLM</sup>     | <0.00250 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>    |
| Cobalt, dissolved           | 7440-48-4  | E421/TY                  | 0.00010   | mg/L |                  | 0.00031                     | 0.00021                    | <0.00050 <sup>DLM</sup>     | <0.00050 <sup>DLM</sup>    | 0.00024                    |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID        | SW29A_SW_2024<br>0901<br>SW | SW20_SW_202409<br>01<br>SW | SW28A_SW_2024<br>0901<br>SW | SW10_SW_2024090<br>1<br>SW | SW03_SW_202409<br>01<br>SW |
|-----------------------------|------------|--------------------------|-----------|------|-------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |                          |           |      |                         | 03-Sep-2024 12:45           | 03-Sep-2024 14:30          | 03-Sep-2024 14:50           | 03-Sep-2024 15:15          | 03-Sep-2024 15:40          |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                         | TY2409915-006               | TY2409915-007              | TY2409915-008               | TY2409915-009              | TY2409915-010              |
|                             |            |                          |           |      |                         | Result                      | Result                     | Result                      | Result                     | Result                     |
| Dissolved Metals            |            |                          |           |      |                         |                             |                            |                             |                            |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY                  | 0.00020   | mg/L | 0.00054 <sup>DTMF</sup> | 0.00031                     | <0.00100 <sup>DLM</sup>    | 0.00148                     | 0.00100                    |                            |
| Iron, dissolved             | 7439-89-6  | E421/TY                  | 0.010     | mg/L | 0.268                   | 0.255                       | 0.104                      | 0.245                       | 0.217                      |                            |
| Lead, dissolved             | 7439-92-1  | E421/TY                  | 0.000050  | mg/L | <0.000050               | <0.000050                   | <0.000250 <sup>DLM</sup>   | <0.000250 <sup>DLM</sup>    | <0.000100 <sup>DLM</sup>   |                            |
| Lithium, dissolved          | 7439-93-2  | E421/TY                  | 0.0010    | mg/L | 0.0040                  | 0.0050                      | 0.0062                     | 0.0065                      | 0.0053                     |                            |
| Magnesium, dissolved        | 7439-95-4  | E421/TY                  | 0.0050    | mg/L | 14.8                    | 15.4                        | 17.6                       | 16.5                        | 16.1                       |                            |
| Manganese, dissolved        | 7439-96-5  | E421/TY                  | 0.00010   | mg/L | 0.218                   | 0.0837                      | 0.0623                     | 0.0337                      | 0.0832                     |                            |
| Mercury, dissolved          | 7439-97-6  | E509/WT                  | 0.0000050 | mg/L | <0.0000050              | <0.0000050                  | <0.0000050                 | <0.0000050                  | <0.0000050                 |                            |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY                  | 0.000050  | mg/L | 0.000122                | 0.000218                    | 0.000448                   | 0.000632                    | 0.000368                   |                            |
| Nickel, dissolved           | 7440-02-0  | E421/TY                  | 0.00050   | mg/L | 0.00128                 | 0.00123                     | <0.00250 <sup>DLM</sup>    | <0.00250 <sup>DLM</sup>     | 0.00176                    |                            |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY                  | 0.050     | mg/L | <0.050                  | <0.050                      | <0.250 <sup>DLM</sup>      | <0.250 <sup>DLM</sup>       | <0.100 <sup>DLM</sup>      |                            |
| Potassium, dissolved        | 7440-09-7  | E421/TY                  | 0.050     | mg/L | 0.239                   | 1.56                        | 0.499                      | 2.34                        | 1.67                       |                            |
| Rubidium, dissolved         | 7440-17-7  | E421/TY                  | 0.00020   | mg/L | 0.00037                 | 0.00202                     | <0.00100 <sup>DLM</sup>    | 0.00226                     | 0.00179                    |                            |
| Selenium, dissolved         | 7782-49-2  | E421/TY                  | 0.000050  | mg/L | 0.000168                | 0.000203                    | <0.000250 <sup>DLM</sup>   | <0.000250 <sup>DLM</sup>    | 0.000245                   |                            |
| Silicon, dissolved          | 7440-21-3  | E421/TY                  | 0.050     | mg/L | 7.83                    | 4.40                        | 4.00                       | 4.84                        | 6.04                       |                            |
| Silver, dissolved           | 7440-22-4  | E421/TY                  | 0.000010  | mg/L | <0.000010               | <0.000010                   | <0.000050 <sup>DLM</sup>   | <0.000050 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   |                            |
| Sodium, dissolved           | 7440-23-5  | E421/TY                  | 0.050     | mg/L | 1.27                    | 9.04                        | 1.80                       | 8.18                        | 4.93                       |                            |
| Strontium, dissolved        | 7440-24-6  | E421/TY                  | 0.00020   | mg/L | 0.0787                  | 0.0851                      | 0.0855                     | 0.112                       | 0.0969                     |                            |
| Sulfur, dissolved           | 7704-34-9  | E421/TY                  | 0.50      | mg/L | <0.50                   | 0.66                        | <2.50 <sup>DLM</sup>       | <2.50 <sup>DLM</sup>        | 1.60                       |                            |
| Tellurium, dissolved        | 13494-80-9 | E421/TY                  | 0.00020   | mg/L | <0.00020                | <0.00020                    | <0.00100 <sup>DLM</sup>    | <0.00100 <sup>DLM</sup>     | <0.00040 <sup>DLM</sup>    |                            |
| Thallium, dissolved         | 7440-28-0  | E421/TY                  | 0.000010  | mg/L | <0.000010               | <0.000010                   | <0.000050 <sup>DLM</sup>   | <0.000050 <sup>DLM</sup>    | <0.000020 <sup>DLM</sup>   |                            |
| Thorium, dissolved          | 7440-29-1  | E421/TY                  | 0.00010   | mg/L | <0.00010                | <0.00010                    | <0.00050 <sup>DLM</sup>    | <0.00050 <sup>DLM</sup>     | <0.00020 <sup>DLM</sup>    |                            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |                          |          |      | Client sample ID | SW29A_SW_2024<br>0901<br>SW | SW20_SW_202409<br>01<br>SW | SW28A_SW_2024<br>0901<br>SW | SW10_SW_2024090<br>1<br>SW | SW03_SW_202409<br>01<br>SW |
|---------------------------------------|------------|--------------------------|----------|------|------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| Client sampling date / time           |            |                          |          |      |                  | 03-Sep-2024 12:45           | 03-Sep-2024 14:30          | 03-Sep-2024 14:50           | 03-Sep-2024 15:15          | 03-Sep-2024 15:40          |
| Analyte                               | CAS Number | Method/Lab/Accreditation | LOR      | Unit |                  | TY2409915-006               | TY2409915-007              | TY2409915-008               | TY2409915-009              | TY2409915-010              |
|                                       |            |                          |          |      |                  | Result                      | Result                     | Result                      | Result                     | Result                     |
| <b>Dissolved Metals</b>               |            |                          |          |      |                  |                             |                            |                             |                            |                            |
| Tin, dissolved                        | 7440-31-5  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00050 DLM                | <0.00050 DLM               | <0.00020 DLM               |
| Titanium, dissolved                   | 7440-32-6  | E421/TY                  | 0.00030  | mg/L |                  | 0.00034                     | 0.00052                    | <0.00150 DLM                | 0.00150                    | <0.00144 DLM               |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00050 DLM                | <0.00050 DLM               | <0.00020 DLM               |
| Uranium, dissolved                    | 7440-61-1  | E421/TY                  | 0.000010 | mg/L |                  | 0.000173                    | 0.000229                   | 0.000645                    | 0.000460                   | 0.000400                   |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY                  | 0.00050  | mg/L |                  | <0.00050                    | <0.00050                   | <0.00250 DLM                | <0.00250 DLM               | <0.00100 DLM               |
| Zinc, dissolved                       | 7440-66-6  | E421/TY                  | 0.0010   | mg/L |                  | 0.0020 DTMF                 | 0.0014                     | <0.0050 DLM                 | <0.0050 DLM                | <0.0020 DLM                |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY                  | 0.00030  | mg/L |                  | <0.00030                    | <0.00030                   | <0.00150 DLM                | <0.00150 DLM               | <0.00060 DLM               |
| Dissolved mercury filtration location | ----       | EP509/WT                 | -        | -    |                  | Field                       | Field                      | Field                       | Field                      | Field                      |
| Dissolved metals filtration location  | ----       | EP421/TY                 | -        | -    |                  | Field                       | Field                      | Field                       | Field                      | Field                      |
| <b>Aggregate Organics</b>             |            |                          |          |      |                  |                             |                            |                             |                            |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY                  | 2.0      | mg/L |                  | <2.0                        | <2.0                       | <2.0                        | <2.0                       | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY                | 10       | mg/L |                  | 79                          | 72                         | 47                          | 70                         | 87                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT                | 1.0      | mg/L |                  | <1.0                        | <1.0                       | <1.0                        | <1.0                       | <1.0                       |
| <b>Radiological Parameters</b>        |            |                          |          |      |                  |                             |                            |                             |                            |                            |
| Radium-226                            | 13982-63-3 | Ra-226/2I                | 0.005    | Bq/L |                  | ----                        | <0.005                     | ----                        | ----                       | ----                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                             |            |                          |        |          | Client sample ID | SW22A_SW_2024<br>0901<br>SW | SW21A_SW_20240<br>901<br>SW | SW26_SW_202409<br>01<br>SW | SW25_SW_2024090<br>1<br>SW | SW27_SW_202409<br>01<br>SW |
|---------------------------------------------|------------|--------------------------|--------|----------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                 |            |                          |        |          |                  | 04-Sep-2024 09:15           | 04-Sep-2024 10:55           | 04-Sep-2024 10:55          | 04-Sep-2024 11:20          | 04-Sep-2024 11:30          |
| Analyte                                     | CAS Number | Method/Lab/Accreditation | LOR    | Unit     |                  | TY2409915-011               | TY2409915-012               | TY2409915-013              | TY2409915-014              | TY2409915-015              |
|                                             |            |                          |        |          |                  | Result                      | Result                      | Result                     | Result                     | Result                     |
| <b>Field Tests</b>                          |            |                          |        |          |                  |                             |                             |                            |                            |                            |
| Oxygen, dissolved, field                    | ----       | EF001/TY                 | 0.01   | mg/L     |                  | 2.35                        | 2.59                        | 3.95                       | 2.63                       | 0.82                       |
| pH, field                                   | ----       | EF001/TY                 | 0.10   | pH units |                  | 7.08                        | 7.22                        | 7.42                       | 7.09                       | 7.08                       |
| Temperature, field                          | ----       | EF001/TY                 | 0.10   | °C       |                  | 17.7                        | 16.7                        | 17.5                       | 17.6                       | 16.1                       |
| <b>Physical Tests</b>                       |            |                          |        |          |                  |                             |                             |                            |                            |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY                  | 2.0    | mg/L     |                  | 2.2                         | 2.7                         | <2.0                       | 2.0                        | 3.3                        |
| Colour, true                                | ----       | E329-L/TY                | 2.0    | CU       |                  | 91.6                        | 96.6                        | 61.4                       | 69.7                       | 62.7                       |
| Conductivity                                | ----       | E100/TY                  | 1.0    | µS/cm    |                  | 321                         | 315                         | 466                        | 347                        | 417                        |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY                 | 0.50   | mg/L     |                  | 162                         | 155                         | 241                        | 176                        | 212                        |
| pH                                          | ----       | E108/TY                  | 0.10   | pH units |                  | 7.67                        | 7.62                        | 7.95                       | 7.68                       | 7.70                       |
| Solids, total dissolved [TDS]               | ----       | E162/TY                  | 10     | mg/L     |                  | 230                         | 241                         | 321                        | 249                        | 314                        |
| Solids, total suspended [TSS]               | ----       | E160/TY                  | 3.0    | mg/L     |                  | <3.0                        | <3.0                        | <3.0                       | <3.0                       | <3.0                       |
| Turbidity                                   | ----       | E121/TY                  | 0.10   | NTU      |                  | 2.32                        | 2.21                        | 5.15                       | 5.07                       | 0.84                       |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY                  | 2.0    | mg/L     |                  | 208                         | 191                         | 297                        | 206                        | 231                        |
| <b>Anions and Nutrients</b>                 |            |                          |        |          |                  |                             |                             |                            |                            |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY                  | 0.0050 | mg/L     |                  | 0.0220 <T                   | 0.0534 <T                   | 0.0154 <T                  | 0.0155 <T                  | 0.0084 <T                  |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY                | 0.0010 | mg/L     |                  | <0.0010                     | <0.0010                     | <0.0010                    | <0.0010                    | <0.0010                    |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY             | 0.10   | mg/L     |                  | 11.0                        | 10.9                        | 9.83                       | 12.4                       | 12.6                       |
| Fluoride                                    | 16984-48-8 | E235.F/TY                | 0.020  | mg/L     |                  | 0.047                       | 0.048                       | 0.059                      | 0.054                      | 0.051                      |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY                  | 0.050  | mg/L     |                  | 1.25                        | 1.27                        | 0.794                      | 0.839                      | 0.910                      |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY              | 0.020  | mg/L     |                  | <0.020                      | <0.020                      | <0.020                     | <0.020                     | <0.020                     |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY              | 0.010  | mg/L     |                  | <0.010                      | <0.010                      | <0.010                     | <0.010                     | <0.010                     |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                          |            |                          |           |      | Client sample ID | SW22A_SW_2024<br>0901<br>SW | SW21A_SW_20240<br>901<br>SW | SW26_SW_202409<br>01<br>SW | SW25_SW_2024090<br>1<br>SW | SW27_SW_202409<br>01<br>SW |
|------------------------------------------|------------|--------------------------|-----------|------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |                          |           |      |                  | 04-Sep-2024 09:15           | 04-Sep-2024 10:55           | 04-Sep-2024 10:55          | 04-Sep-2024 11:20          | 04-Sep-2024 11:30          |
| Analyte                                  | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-011               | TY2409915-012               | TY2409915-013              | TY2409915-014              | TY2409915-015              |
|                                          |            |                          |           |      |                  | Result                      | Result                      | Result                     | Result                     | Result                     |
| Anions and Nutrients                     |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY                | 0.0010    | mg/L |                  | 0.0518                      | 0.0550                      | 0.0023                     | 0.0059                     | 0.0253                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY              | 0.30      | mg/L |                  | 1.17                        | 0.32                        | 33.4                       | 10.6                       | 35.7                       |
| Cyanides                                 |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Cyanide, free                            | ----       | E339/WT                  | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT                  | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT                  | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT                | 0.50      | mg/L |                  | 31.5                        | 32.8                        | 22.7                       | 25.9                       | 23.4                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT                | 0.50      | mg/L |                  | 29.5                        | 30.1                        | 19.7                       | 22.5                       | 21.7                       |
| Total Metals                             |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY                  | 0.0030    | mg/L |                  | 0.0454                      | 0.0261 <T                   | 0.133                      | 0.163                      | 0.0142 <T                  |
| Antimony, total                          | 7440-36-0  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                    | 0.00012 <T                 | 0.00011 <T                 | 0.00012 <T                 |
| Arsenic, total                           | 7440-38-2  | E420/TY                  | 0.00010   | mg/L |                  | 0.00174 <T                  | 0.00161 <T                  | 0.00158 <T                 | 0.00119 <T                 | 0.00120 <T                 |
| Barium, total                            | 7440-39-3  | E420/TY                  | 0.00010   | mg/L |                  | 0.0108                      | 0.0139                      | 0.0245                     | 0.0226                     | 0.0208                     |
| Beryllium, total                         | 7440-41-7  | E420/TY                  | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                   | <0.000020                  | <0.000020                  | <0.000020                  |
| Bismuth, total                           | 7440-69-9  | E420/TY                  | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY                  | 0.010     | mg/L |                  | 0.021 <T                    | 0.019 <T                    | 0.025 <T                   | 0.017 <T                   | 0.021 <T                   |
| Cadmium, total                           | 7440-43-9  | E420/TY                  | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                  | 0.0000120 <T               | 0.0000050                  | <0.0000050                 |
| Calcium, total                           | 7440-70-2  | E420/TY                  | 0.050     | mg/L |                  | 39.3                        | 39.0                        | 61.4                       | 46.8                       | 54.4                       |
| Cesium, total                            | 7440-46-2  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                   | 0.000022                   | 0.000024                   | <0.000010                  |
| Chromium, total                          | 7440-47-3  | E420/TY                  | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                    | <0.00050                   | <0.00050                   | <0.00050                   |





## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW22A_SW_2024<br>0901<br>SW | SW21A_SW_20240<br>901<br>SW | SW26_SW_202409<br>01<br>SW | SW25_SW_2024090<br>1<br>SW | SW27_SW_202409<br>01<br>SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |                          |           |      |                  | 04-Sep-2024 09:15           | 04-Sep-2024 10:55           | 04-Sep-2024 10:55          | 04-Sep-2024 11:20          | 04-Sep-2024 11:30          |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-011               | TY2409915-012               | TY2409915-013              | TY2409915-014              | TY2409915-015              |
|                             |            |                          |           |      |                  | Result                      | Result                      | Result                     | Result                     | Result                     |
| <b>Total Metals</b>         |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Cobalt, total               | 7440-48-4  | E420/TY                  | 0.00010   | mg/L |                  | 0.00029 <T                  | 0.00037 <T                  | 0.00017 <T                 | 0.00016 <T                 | <0.00010                   |
| Copper, total               | 7440-50-8  | E420/TY                  | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                    | 0.00228 <T                 | 0.00159 <T                 | 0.00055 <T                 |
| Iron, total                 | 7439-89-6  | E420/TY                  | 0.010     | mg/L |                  | 0.363                       | 0.461                       | 0.281                      | 0.266                      | 0.109                      |
| Lead, total                 | 7439-92-1  | E420/TY                  | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                   | 0.000067 <T                | 0.000097 <T                | <0.000050                  |
| Lithium, total              | 7439-93-2  | E420/TY                  | 0.0010    | mg/L |                  | 0.0053 <T                   | 0.0051 <T                   | 0.0086 <T                  | 0.0052 <T                  | 0.0069 <T                  |
| Magnesium, total            | 7439-95-4  | E420/TY                  | 0.0050    | mg/L |                  | 16.4                        | 16.0                        | 22.1                       | 15.6                       | 19.9                       |
| Manganese, total            | 7439-96-5  | E420/TY                  | 0.00010   | mg/L |                  | 0.105                       | 0.225                       | 0.0822                     | 0.0782                     | 0.0391                     |
| Mercury, total              | 7439-97-6  | E508/WT                  | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY                  | 0.000050  | mg/L |                  | 0.000239 <T                 | 0.000215 <T                 | 0.000802 <T                | 0.000562 <T                | 0.000686 <T                |
| Nickel, total               | 7440-02-0  | E420/TY                  | 0.00050   | mg/L |                  | 0.00132 <T                  | 0.00127 <T                  | 0.00142 <T                 | 0.00135 <T                 | 0.00115 <T                 |
| Phosphorus, total           | 7723-14-0  | E420/TY                  | 0.050     | mg/L |                  | 0.107                       | 0.090                       | <0.050                     | <0.050                     | 0.058                      |
| Potassium, total            | 7440-09-7  | E420/TY                  | 0.050     | mg/L |                  | 2.01                        | 1.90                        | 2.46                       | 2.17                       | 2.94                       |
| Rubidium, total             | 7440-17-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00305                     | 0.00290                     | 0.00198                    | 0.00240                    | 0.00211                    |
| Selenium, total             | 7782-49-2  | E420/TY                  | 0.000050  | mg/L |                  | 0.000225 <T                 | 0.000189 <T                 | 0.000204 <T                | 0.000161 <T                | 0.000173 <T                |
| Silicon, total              | 7440-21-3  | E420/TY                  | 0.10      | mg/L |                  | 6.76                        | 6.69                        | 4.68                       | 3.35                       | 4.84                       |
| Silver, total               | 7440-22-4  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY                  | 0.050     | mg/L |                  | 5.96                        | 6.13                        | 5.75                       | 4.53                       | 6.06                       |
| Strontium, total            | 7440-24-6  | E420/TY                  | 0.00020   | mg/L |                  | 0.102                       | 0.0964                      | 0.176                      | 0.114                      | 0.151                      |
| Sulfur, total               | 7704-34-9  | E420/TY                  | 0.50      | mg/L |                  | 0.98                        | 0.61                        | 12.9                       | 4.52                       | 13.7                       |
| Tellurium, total            | 13494-80-9 | E420/TY                  | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW22A_SW_2024<br>0901<br>SW | SW21A_SW_20240<br>901<br>SW | SW26_SW_202409<br>01<br>SW | SW25_SW_2024090<br>1<br>SW | SW27_SW_202409<br>01<br>SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |                          |           |      |                  | 04-Sep-2024 09:15           | 04-Sep-2024 10:55           | 04-Sep-2024 10:55          | 04-Sep-2024 11:20          | 04-Sep-2024 11:30          |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-011               | TY2409915-012               | TY2409915-013              | TY2409915-014              | TY2409915-015              |
|                             |            |                          |           |      |                  | Result                      | Result                      | Result                     | Result                     | Result                     |
| <b>Total Metals</b>         |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Thorium, total              | 7440-29-1  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY                  | 0.00030   | mg/L |                  | 0.00179                     | <0.00129 <sup>DLM</sup>     | 0.00507                    | 0.00610                    | <0.00081 <sup>DLM</sup>    |
| Tungsten, total             | 7440-33-7  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY                  | 0.000010  | mg/L |                  | 0.000214 <sup>&lt;T</sup>   | 0.000163 <sup>&lt;T</sup>   | 0.00109 <sup>&lt;T</sup>   | 0.000792 <sup>&lt;T</sup>  | 0.000742 <sup>&lt;T</sup>  |
| Vanadium, total             | 7440-62-2  | E420/TY                  | 0.00050   | mg/L |                  | 0.00051                     | <0.00050                    | 0.00087                    | 0.00095                    | <0.00050                   |
| Zinc, total                 | 7440-66-6  | E420/TY                  | 0.0030    | mg/L |                  | <0.0030                     | <0.0030                     | 0.0098 <sup>&lt;T</sup>    | 0.0061 <sup>&lt;T</sup>    | <0.0030                    |
| Zirconium, total            | 7440-67-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00020                     | <0.00020                    | 0.00040                    | 0.00033                    | <0.00020                   |
| <b>Dissolved Metals</b>     |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY                  | 0.0010    | mg/L |                  | 0.0045                      | 0.0040                      | 0.0072                     | 0.0082                     | 0.0036                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                    | 0.00011                    | <0.00010                   | 0.00012                    |
| Arsenic, dissolved          | 7440-38-2  | E421/TY                  | 0.00010   | mg/L |                  | 0.00155                     | 0.00152                     | 0.00143                    | 0.00110                    | 0.00117                    |
| Barium, dissolved           | 7440-39-3  | E421/TY                  | 0.00010   | mg/L |                  | 0.0105                      | 0.0138                      | 0.0242                     | 0.0216                     | 0.0205                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY                  | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                   | <0.000020                  | <0.000020                  | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY                  | 0.010     | mg/L |                  | 0.018                       | 0.016                       | 0.023                      | 0.016                      | 0.019                      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY                  | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                  | 0.0000101                  | <0.0000050                 | <0.0000050                 |
| Calcium, dissolved          | 7440-70-2  | E421/TY                  | 0.050     | mg/L |                  | 38.5                        | 36.2                        | 60.1                       | 45.3                       | 52.8                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY                  | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                    | <0.00050                   | <0.00050                   | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY                  | 0.00010   | mg/L |                  | 0.00024                     | 0.00033                     | 0.00012                    | 0.00010                    | <0.00010                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW22A_SW_2024<br>0901<br>SW | SW21A_SW_20240<br>901<br>SW | SW26_SW_202409<br>01<br>SW | SW25_SW_2024090<br>1<br>SW | SW27_SW_202409<br>01<br>SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |                          |           |      |                  | 04-Sep-2024 09:15           | 04-Sep-2024 10:55           | 04-Sep-2024 10:55          | 04-Sep-2024 11:20          | 04-Sep-2024 11:30          |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-011               | TY2409915-012               | TY2409915-013              | TY2409915-014              | TY2409915-015              |
|                             |            |                          |           |      |                  | Result                      | Result                      | Result                     | Result                     | Result                     |
| <b>Dissolved Metals</b>     |            |                          |           |      |                  |                             |                             |                            |                            |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY                  | 0.00020   | mg/L |                  | 0.00026                     | 0.00021                     | 0.00188                    | 0.00171                    | 0.00051                    |
| Iron, dissolved             | 7439-89-6  | E421/TY                  | 0.010     | mg/L |                  | 0.220                       | 0.319                       | 0.108                      | 0.087                      | 0.065                      |
| Lead, dissolved             | 7439-92-1  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  |
| Lithium, dissolved          | 7439-93-2  | E421/TY                  | 0.0010    | mg/L |                  | 0.0052                      | 0.0051                      | 0.0084                     | 0.0054                     | 0.0063                     |
| Magnesium, dissolved        | 7439-95-4  | E421/TY                  | 0.0050    | mg/L |                  | 16.1                        | 15.8                        | 22.0                       | 15.3                       | 19.4                       |
| Manganese, dissolved        | 7439-96-5  | E421/TY                  | 0.00010   | mg/L |                  | 0.0806                      | 0.203                       | 0.0735                     | 0.0708                     | 0.0165                     |
| Mercury, dissolved          | 7439-97-6  | E509/WT                  | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY                  | 0.000050  | mg/L |                  | 0.000217                    | 0.000193                    | 0.000794                   | 0.000520                   | 0.000641                   |
| Nickel, dissolved           | 7440-02-0  | E421/TY                  | 0.00050   | mg/L |                  | 0.00121                     | 0.00114                     | 0.00134                    | 0.00123                    | 0.00105                    |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY                  | 0.050     | mg/L |                  | 0.056                       | 0.078                       | <0.050                     | <0.050                     | <0.050                     |
| Potassium, dissolved        | 7440-09-7  | E421/TY                  | 0.050     | mg/L |                  | 1.94                        | 1.85                        | 2.47                       | 2.16                       | 2.86                       |
| Rubidium, dissolved         | 7440-17-7  | E421/TY                  | 0.00020   | mg/L |                  | 0.00274                     | 0.00291                     | 0.00178                    | 0.00211                    | 0.00211                    |
| Selenium, dissolved         | 7782-49-2  | E421/TY                  | 0.000050  | mg/L |                  | 0.000184                    | 0.000202                    | 0.000180                   | 0.000189                   | 0.000171                   |
| Silicon, dissolved          | 7440-21-3  | E421/TY                  | 0.050     | mg/L |                  | 6.35                        | 6.43                        | 4.27                       | 2.94                       | 4.44                       |
| Silver, dissolved           | 7440-22-4  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |
| Sodium, dissolved           | 7440-23-5  | E421/TY                  | 0.050     | mg/L |                  | 5.98                        | 6.18                        | 5.71                       | 4.48                       | 5.88                       |
| Strontium, dissolved        | 7440-24-6  | E421/TY                  | 0.00020   | mg/L |                  | 0.0981                      | 0.0938                      | 0.175                      | 0.108                      | 0.138                      |
| Sulfur, dissolved           | 7704-34-9  | E421/TY                  | 0.50      | mg/L |                  | 0.94                        | 0.58                        | 12.3                       | 4.31                       | 12.4                       |
| Tellurium, dissolved        | 13494-80-9 | E421/TY                  | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   |
| Thallium, dissolved         | 7440-28-0  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  |
| Thorium, dissolved          | 7440-29-1  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |                          |          |      | Client sample ID | SW22A_SW_2024<br>0901<br>SW | SW21A_SW_20240<br>901<br>SW | SW26_SW_202409<br>01<br>SW | SW25_SW_2024090<br>1<br>SW | SW27_SW_202409<br>01<br>SW |
|---------------------------------------|------------|--------------------------|----------|------|------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time           |            |                          |          |      |                  | 04-Sep-2024 09:15           | 04-Sep-2024 10:55           | 04-Sep-2024 10:55          | 04-Sep-2024 11:20          | 04-Sep-2024 11:30          |
| Analyte                               | CAS Number | Method/Lab/Accreditation | LOR      | Unit |                  | TY2409915-011               | TY2409915-012               | TY2409915-013              | TY2409915-014              | TY2409915-015              |
|                                       |            |                          |          |      |                  | Result                      | Result                      | Result                     | Result                     | Result                     |
| <b>Dissolved Metals</b>               |            |                          |          |      |                  |                             |                             |                            |                            |                            |
| Tin, dissolved                        | 7440-31-5  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |
| Titanium, dissolved                   | 7440-32-6  | E421/TY                  | 0.00030  | mg/L |                  | <0.00030                    | 0.00038                     | 0.00086                    | 0.00102                    | 0.00049                    |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   |
| Uranium, dissolved                    | 7440-61-1  | E421/TY                  | 0.000010 | mg/L |                  | 0.000190                    | 0.000153                    | 0.00104                    | 0.000752                   | 0.000720                   |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY                  | 0.00050  | mg/L |                  | <0.00050                    | <0.00050                    | <0.00050                   | 0.00051                    | <0.00050                   |
| Zinc, dissolved                       | 7440-66-6  | E421/TY                  | 0.0010   | mg/L |                  | <0.0010                     | <0.0010                     | 0.0070                     | 0.0064                     | 0.0014                     |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY                  | 0.00030  | mg/L |                  | <0.00030                    | <0.00030                    | <0.00030                   | <0.00030                   | <0.00030                   |
| Dissolved mercury filtration location | ----       | EP509/WT                 | -        | -    |                  | Field                       | Field                       | Field                      | Field                      | Field                      |
| Dissolved metals filtration location  | ----       | EP421/TY                 | -        | -    |                  | Field                       | Field                       | Field                      | Field                      | Field                      |
| <b>Aggregate Organics</b>             |            |                          |          |      |                  |                             |                             |                            |                            |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY                  | 2.0      | mg/L |                  | <2.0                        | <2.0                        | <2.0                       | <2.0                       | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY                | 10       | mg/L |                  | 75                          | 75                          | 51                         | 58                         | 51                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT                | 1.0      | mg/L |                  | <1.0                        | <1.0                        | <1.0                       | <1.0                       | <1.0                       |
| <b>Radiological Parameters</b>        |            |                          |          |      |                  |                             |                             |                            |                            |                            |
| Radium-226                            | 13982-63-3 | Ra-226/2I                | 0.005    | Bq/L |                  | <0.005                      | ----                        | ----                       | ----                       | ----                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                             |            |                          |        |          | Client sample ID       | SW02_SW_20240901 SW | FB_SW_20240901 SW       | SW06_SW_20240901 SW     | TB_SW_20240901 SW | ---- |
|---------------------------------------------|------------|--------------------------|--------|----------|------------------------|---------------------|-------------------------|-------------------------|-------------------|------|
| Client sampling date / time                 |            |                          |        |          |                        | 04-Sep-2024 11:55   | 04-Sep-2024 12:00       | 04-Sep-2024 12:00       | 04-Sep-2024 12:00 | ---- |
| Analyte                                     | CAS Number | Method/Lab/Accreditation | LOR    | Unit     | TY2409915-016          | TY2409915-017       | TY2409915-018           | TY2409915-019           | ----              | ---- |
|                                             |            |                          |        |          | Result                 | Result              | Result                  | Result                  | ----              | ---- |
| Field Tests                                 |            |                          |        |          |                        |                     |                         |                         |                   |      |
| Oxygen, dissolved, field                    | ----       | EF001/TY                 | 0.01   | mg/L     | 3.94                   | ----                | 2.59                    | ----                    | ----              | ---- |
| pH, field                                   | ----       | EF001/TY                 | 0.10   | pH units | 6.79                   | ----                | 7.22                    | ----                    | ----              | ---- |
| Temperature, field                          | ----       | EF001/TY                 | 0.10   | °C       | 16.9                   | ----                | 16.7                    | ----                    | ----              | ---- |
| Physical Tests                              |            |                          |        |          |                        |                     |                         |                         |                   |      |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY                  | 2.0    | mg/L     | 2.4                    | <2.0                | 3.6                     | <2.0                    | ----              | ---- |
| Colour, true                                | ----       | E329-L/TY                | 2.0    | CU       | 170                    | <2.0                | 94.3                    | <2.0                    | ----              | ---- |
| Conductivity                                | ----       | E100/TY                  | 1.0    | µS/cm    | 194                    | 2.8                 | 314                     | <1.0                    | ----              | ---- |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY                 | 0.50   | mg/L     | 111                    | <0.50               | 160                     | <0.50                   | ----              | ---- |
| pH                                          | ----       | E108/TY                  | 0.10   | pH units | 7.37                   | 6.14                | 7.61                    | 5.36                    | ----              | ---- |
| Solids, total dissolved [TDS]               | ----       | E162/TY                  | 10     | mg/L     | 153                    | <10                 | 240                     | <10                     | ----              | ---- |
| Solids, total suspended [TSS]               | ----       | E160/TY                  | 3.0    | mg/L     | 5.4                    | <3.0                | <3.0                    | <3.0                    | ----              | ---- |
| Turbidity                                   | ----       | E121/TY                  | 0.10   | NTU      | 1.75                   | <0.10               | 1.72                    | <0.10                   | ----              | ---- |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY                  | 2.0    | mg/L     | 106                    | <2.0                | 190                     | <2.0                    | ----              | ---- |
| Anions and Nutrients                        |            |                          |        |          |                        |                     |                         |                         |                   |      |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY                  | 0.0050 | mg/L     | 0.103 <sup>&lt;T</sup> | <0.0050             | 0.0519 <sup>&lt;T</sup> | 0.0051 <sup>&lt;T</sup> | ----              | ---- |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY                | 0.0010 | mg/L     | <0.0010                | ----                | <0.0010                 | ----                    | ----              | ---- |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY             | 0.10   | mg/L     | 0.19                   | <0.10               | 11.2                    | <0.10                   | ----              | ---- |
| Fluoride                                    | 16984-48-8 | E235.F/TY                | 0.020  | mg/L     | 0.026                  | <0.020              | 0.046                   | <0.020                  | ----              | ---- |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY                  | 0.050  | mg/L     | 1.19                   | <0.050              | 1.24                    | <0.050                  | ----              | ---- |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY              | 0.020  | mg/L     | <0.020                 | <0.020              | <0.020                  | <0.020                  | ----              | ---- |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY              | 0.010  | mg/L     | <0.010                 | <0.010              | <0.010                  | <0.010                  | ----              | ---- |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |                          |           | Client sample ID | SW02_SW_20240901 SW        | FB_SW_20240901 SW      | SW06_SW_20240901 SW      | TB_SW_20240901 SW | ---- |
|----------------------------------------------|------------|--------------------------|-----------|------------------|----------------------------|------------------------|--------------------------|-------------------|------|
| Client sampling date / time                  |            |                          |           |                  | 04-Sep-2024 11:55          | 04-Sep-2024 12:00      | 04-Sep-2024 12:00        | 04-Sep-2024 12:00 | ---- |
| Analyte                                      | CAS Number | Method/Lab/Accreditation | LOR       | Unit             | TY2409915-016              | TY2409915-017          | TY2409915-018            | TY2409915-019     | ---- |
|                                              |            |                          |           |                  | Result                     | Result                 | Result                   | Result            | ---- |
| Anions and Nutrients                         |            |                          |           |                  |                            |                        |                          |                   |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY                | 0.0010    | mg/L             | 0.0027                     | <0.0010                | 0.0500                   | <0.0010           | ---- |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY              | 0.30      | mg/L             | <0.30                      | <0.30                  | 0.32                     | <0.30             | ---- |
| Cyanides                                     |            |                          |           |                  |                            |                        |                          |                   |      |
| Cyanide, free                                | ----       | E339/WT                  | 0.0020    | mg/L             | <0.0020                    | <0.0020                | <0.0020                  | <0.0020           | ---- |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT                  | 0.0020    | mg/L             | <0.0020                    | <0.0020                | <0.0020                  | <0.0020           | ---- |
| Cyanide, weak acid dissociable               | ----       | E336/WT                  | 0.0020    | mg/L             | <0.0020                    | <0.0020                | <0.0020                  | <0.0020           | ---- |
| Organic / Inorganic Carbon                   |            |                          |           |                  |                            |                        |                          |                   |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT                | 0.50      | mg/L             | 35.1                       | <0.50                  | 30.4                     | <0.50             | ---- |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT                | 0.50      | mg/L             | 35.6                       | <0.50                  | 31.6                     | <0.50             | ---- |
| Total Metals                                 |            |                          |           |                  |                            |                        |                          |                   |      |
| Aluminum, total                              | 7429-90-5  | E420/TY                  | 0.0030    | mg/L             | 0.0608                     | <0.0030                | 0.0267 <sup>&lt;T</sup>  | <0.0030           | ---- |
| Antimony, total                              | 7440-36-0  | E420/TY                  | 0.00010   | mg/L             | <0.00010                   | <0.00010               | <0.00010                 | <0.00010          | ---- |
| Arsenic, total                               | 7440-38-2  | E420/TY                  | 0.00010   | mg/L             | 0.00132 <sup>&lt;T</sup>   | <0.00010               | 0.00157 <sup>&lt;T</sup> | <0.00010          | ---- |
| Barium, total                                | 7440-39-3  | E420/TY                  | 0.00010   | mg/L             | 0.0169                     | 0.00068 <sup>RRV</sup> | 0.0138                   | <0.00010          | ---- |
| Beryllium, total                             | 7440-41-7  | E420/TY                  | 0.000020  | mg/L             | <0.000020                  | <0.000020              | <0.000020                | <0.000020         | ---- |
| Bismuth, total                               | 7440-69-9  | E420/TY                  | 0.000050  | mg/L             | <0.000050                  | <0.000050              | <0.000050                | <0.000050         | ---- |
| Boron, total                                 | 7440-42-8  | E420/TY                  | 0.010     | mg/L             | <0.010                     | <0.010                 | 0.017 <sup>&lt;T</sup>   | <0.010            | ---- |
| Cadmium, total                               | 7440-43-9  | E420/TY                  | 0.0000050 | mg/L             | 0.0000070 <sup>&lt;T</sup> | <0.0000050             | <0.0000050               | <0.0000050        | ---- |
| Calcium, total                               | 7440-70-2  | E420/TY                  | 0.050     | mg/L             | 26.8                       | 0.060 <sup>RRV</sup>   | 39.3                     | <0.050            | ---- |
| Cesium, total                                | 7440-46-2  | E420/TY                  | 0.000010  | mg/L             | <0.000010                  | <0.000010              | <0.000010                | <0.000010         | ---- |
| Chromium, total                              | 7440-47-3  | E420/TY                  | 0.00050   | mg/L             | <0.00050                   | <0.00050               | <0.00050                 | <0.00050          | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW02_SW_20240901 SW       | FB_SW_20240901 SW             | SW06_SW_20240901 SW       | TB_SW_20240901 SW | ---- |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------------|-------------------------------|---------------------------|-------------------|------|
| Client sampling date / time |            |                          |           |      |                  | 04-Sep-2024 11:55         | 04-Sep-2024 12:00             | 04-Sep-2024 12:00         | 04-Sep-2024 12:00 | ---- |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-016             | TY2409915-017                 | TY2409915-018             | TY2409915-019     | ---- |
|                             |            |                          |           |      |                  | Result                    | Result                        | Result                    | Result            | ---- |
| Total Metals                |            |                          |           |      |                  |                           |                               |                           |                   |      |
| Cobalt, total               | 7440-48-4  | E420/TY                  | 0.00010   | mg/L |                  | 0.00039 <sup>&lt;T</sup>  | <0.00010                      | 0.00036 <sup>&lt;T</sup>  | <0.00010          | ---- |
| Copper, total               | 7440-50-8  | E420/TY                  | 0.00050   | mg/L |                  | 0.00054 <sup>&lt;T</sup>  | 0.00184 <sup>&lt;T, RRV</sup> | <0.00050                  | <0.00050          | ---- |
| Iron, total                 | 7439-89-6  | E420/TY                  | 0.010     | mg/L |                  | 0.851                     | <0.010                        | 0.465                     | <0.010            | ---- |
| Lead, total                 | 7439-92-1  | E420/TY                  | 0.000050  | mg/L |                  | 0.000155 <sup>&lt;T</sup> | <0.000050                     | <0.000050                 | <0.000050         | ---- |
| Lithium, total              | 7439-93-2  | E420/TY                  | 0.0010    | mg/L |                  | 0.0020 <sup>&lt;T</sup>   | <0.0010                       | 0.0053 <sup>&lt;T</sup>   | <0.0010           | ---- |
| Magnesium, total            | 7439-95-4  | E420/TY                  | 0.0050    | mg/L |                  | 10.6                      | 0.0103 <sup>&lt;T, RRV</sup>  | 16.1                      | <0.0050           | ---- |
| Manganese, total            | 7439-96-5  | E420/TY                  | 0.00010   | mg/L |                  | 0.217                     | 0.00016 <sup>RRV</sup>        | 0.224                     | <0.00010          | ---- |
| Mercury, total              | 7439-97-6  | E508/WT                  | 0.0000050 | mg/L |                  | <0.0000050                | <0.0000050                    | <0.0000050                | <0.0000050        | ---- |
| Molybdenum, total           | 7439-98-7  | E420/TY                  | 0.000050  | mg/L |                  | 0.000068 <sup>&lt;T</sup> | <0.000050                     | 0.000234 <sup>&lt;T</sup> | <0.000050         | ---- |
| Nickel, total               | 7440-02-0  | E420/TY                  | 0.00050   | mg/L |                  | 0.00072 <sup>&lt;T</sup>  | <0.00050                      | 0.00126 <sup>&lt;T</sup>  | <0.00050          | ---- |
| Phosphorus, total           | 7723-14-0  | E420/TY                  | 0.050     | mg/L |                  | <0.050                    | <0.050                        | 0.106                     | <0.050            | ---- |
| Potassium, total            | 7440-09-7  | E420/TY                  | 0.050     | mg/L |                  | 0.953                     | <0.050                        | 1.88                      | <0.050            | ---- |
| Rubidium, total             | 7440-17-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00204                   | <0.00020                      | 0.00306                   | <0.00020          | ---- |
| Selenium, total             | 7782-49-2  | E420/TY                  | 0.000050  | mg/L |                  | 0.000135 <sup>&lt;T</sup> | <0.000050                     | 0.000210 <sup>&lt;T</sup> | <0.000050         | ---- |
| Silicon, total              | 7440-21-3  | E420/TY                  | 0.10      | mg/L |                  | 7.33                      | 0.30 <sup>RRV</sup>           | 6.77                      | <0.10             | ---- |
| Silver, total               | 7440-22-4  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                 | <0.000010                     | <0.000010                 | <0.000010         | ---- |
| Sodium, total               | 7440-23-5  | E420/TY                  | 0.050     | mg/L |                  | 0.933                     | 0.554 <sup>RRV</sup>          | 6.08                      | <0.050            | ---- |
| Strontium, total            | 7440-24-6  | E420/TY                  | 0.00020   | mg/L |                  | 0.0527                    | 0.00035 <sup>&lt;T, RRV</sup> | 0.103                     | <0.00020          | ---- |
| Sulfur, total               | 7704-34-9  | E420/TY                  | 0.50      | mg/L |                  | <0.50                     | <0.50                         | 0.56                      | <0.50             | ---- |
| Tellurium, total            | 13494-80-9 | E420/TY                  | 0.00020   | mg/L |                  | <0.00020                  | <0.00020                      | <0.00020                  | <0.00020          | ---- |
| Thallium, total             | 7440-28-0  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                 | <0.000010                     | <0.000010                 | <0.000010         | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW02_SW_20240901 SW       | FB_SW_20240901 SW      | SW06_SW_20240901 SW       | TB_SW_20240901 SW | ---- |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------------|------------------------|---------------------------|-------------------|------|
| Client sampling date / time |            |                          |           |      |                  | 04-Sep-2024 11:55         | 04-Sep-2024 12:00      | 04-Sep-2024 12:00         | 04-Sep-2024 12:00 | ---- |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-016             | TY2409915-017          | TY2409915-018             | TY2409915-019     | ---- |
|                             |            |                          |           |      |                  | Result                    | Result                 | Result                    | Result            | ---- |
| Total Metals                |            |                          |           |      |                  |                           |                        |                           |                   |      |
| Thorium, total              | 7440-29-1  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                  | <0.00010               | <0.00010                  | <0.00010          | ---- |
| Tin, total                  | 7440-31-5  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                  | <0.00010               | <0.00010                  | <0.00010          | ---- |
| Titanium, total             | 7440-32-6  | E420/TY                  | 0.00030   | mg/L |                  | 0.00164                   | <0.00030               | 0.00116                   | <0.00030          | ---- |
| Tungsten, total             | 7440-33-7  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                  | <0.00010               | <0.00010                  | <0.00010          | ---- |
| Uranium, total              | 7440-61-1  | E420/TY                  | 0.000010  | mg/L |                  | 0.000056 <sup>&lt;T</sup> | <0.000010              | 0.000168 <sup>&lt;T</sup> | <0.000010         | ---- |
| Vanadium, total             | 7440-62-2  | E420/TY                  | 0.00050   | mg/L |                  | <0.00050                  | <0.00050               | <0.00050                  | <0.00050          | ---- |
| Zinc, total                 | 7440-66-6  | E420/TY                  | 0.0030    | mg/L |                  | 0.0031 <sup>&lt;T</sup>   | <0.0030                | <0.0030                   | <0.0030           | ---- |
| Zirconium, total            | 7440-67-7  | E420/TY                  | 0.00020   | mg/L |                  | <0.00020                  | <0.00020               | <0.00020                  | <0.00020          | ---- |
| Dissolved Metals            |            |                          |           |      |                  |                           |                        |                           |                   |      |
| Aluminum, dissolved         | 7429-90-5  | E421/TY                  | 0.0010    | mg/L |                  | 0.0185                    | <0.0010                | 0.0046                    | <0.0010           | ---- |
| Antimony, dissolved         | 7440-36-0  | E421/TY                  | 0.00010   | mg/L |                  | <0.00020 <sup>DLM</sup>   | <0.00010               | <0.00010                  | <0.00010          | ---- |
| Arsenic, dissolved          | 7440-38-2  | E421/TY                  | 0.00010   | mg/L |                  | 0.00115                   | <0.00010               | 0.00150                   | <0.00010          | ---- |
| Barium, dissolved           | 7440-39-3  | E421/TY                  | 0.00010   | mg/L |                  | 0.0160                    | 0.00073 <sup>RRV</sup> | 0.0137                    | <0.00010          | ---- |
| Beryllium, dissolved        | 7440-41-7  | E421/TY                  | 0.000020  | mg/L |                  | <0.000040 <sup>DLM</sup>  | <0.000020              | <0.000020                 | <0.000020         | ---- |
| Bismuth, dissolved          | 7440-69-9  | E421/TY                  | 0.000050  | mg/L |                  | <0.000100 <sup>DLM</sup>  | <0.000050              | <0.000050                 | <0.000050         | ---- |
| Boron, dissolved            | 7440-42-8  | E421/TY                  | 0.010     | mg/L |                  | <0.020 <sup>DLM</sup>     | <0.010                 | 0.017                     | <0.010            | ---- |
| Cadmium, dissolved          | 7440-43-9  | E421/TY                  | 0.0000050 | mg/L |                  | <0.0000100 <sup>DLM</sup> | <0.0000050             | <0.0000050                | <0.0000050        | ---- |
| Calcium, dissolved          | 7440-70-2  | E421/TY                  | 0.050     | mg/L |                  | 26.5                      | 0.065 <sup>RRV</sup>   | 38.0                      | <0.050            | ---- |
| Cesium, dissolved           | 7440-46-2  | E421/TY                  | 0.000010  | mg/L |                  | <0.000020 <sup>DLM</sup>  | <0.000010              | <0.000010                 | <0.000010         | ---- |
| Chromium, dissolved         | 7440-47-3  | E421/TY                  | 0.00050   | mg/L |                  | <0.00100 <sup>DLM</sup>   | <0.00050               | <0.00050                  | <0.00050          | ---- |
| Cobalt, dissolved           | 7440-48-4  | E421/TY                  | 0.00010   | mg/L |                  | 0.00030                   | <0.00010               | 0.00034                   | <0.00010          | ---- |





## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW02_SW_20240901 SW      | FB_SW_20240901 SW      | SW06_SW_20240901 SW | TB_SW_20240901 SW | ---- |
|-----------------------------|------------|--------------------------|-----------|------|------------------|--------------------------|------------------------|---------------------|-------------------|------|
| Client sampling date / time |            |                          |           |      |                  | 04-Sep-2024 11:55        | 04-Sep-2024 12:00      | 04-Sep-2024 12:00   | 04-Sep-2024 12:00 | ---- |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2409915-016            | TY2409915-017          | TY2409915-018       | TY2409915-019     | ---- |
|                             |            |                          |           |      |                  | Result                   | Result                 | Result              | Result            | ---- |
| Dissolved Metals            |            |                          |           |      |                  |                          |                        |                     |                   |      |
| Copper, dissolved           | 7440-50-8  | E421/TY                  | 0.00020   | mg/L |                  | 0.00126                  | 0.00203 <sup>RRV</sup> | 0.00025             | <0.00020          | ---- |
| Iron, dissolved             | 7439-89-6  | E421/TY                  | 0.010     | mg/L |                  | 0.636                    | <0.010                 | 0.312               | <0.010            | ---- |
| Lead, dissolved             | 7439-92-1  | E421/TY                  | 0.000050  | mg/L |                  | <0.000100 <sup>DLM</sup> | <0.000050              | <0.000050           | <0.000050         | ---- |
| Lithium, dissolved          | 7439-93-2  | E421/TY                  | 0.0010    | mg/L |                  | <0.0020 <sup>DLM</sup>   | <0.0010                | 0.0052              | <0.0010           | ---- |
| Magnesium, dissolved        | 7439-95-4  | E421/TY                  | 0.0050    | mg/L |                  | 11.0                     | 0.0117 <sup>RRV</sup>  | 15.8                | <0.0050           | ---- |
| Manganese, dissolved        | 7439-96-5  | E421/TY                  | 0.00010   | mg/L |                  | 0.158                    | 0.00017 <sup>RRV</sup> | 0.203               | <0.00010          | ---- |
| Mercury, dissolved          | 7439-97-6  | E509/WT                  | 0.0000050 | mg/L |                  | <0.0000050               | <0.0000050             | <0.0000050          | <0.0000050        | ---- |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY                  | 0.000050  | mg/L |                  | <0.000100 <sup>DLM</sup> | <0.000050              | 0.000217            | <0.000050         | ---- |
| Nickel, dissolved           | 7440-02-0  | E421/TY                  | 0.00050   | mg/L |                  | <0.00100 <sup>DLM</sup>  | <0.00050               | 0.00117             | <0.00050          | ---- |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY                  | 0.050     | mg/L |                  | <0.100 <sup>DLM</sup>    | <0.050                 | 0.077               | <0.050            | ---- |
| Potassium, dissolved        | 7440-09-7  | E421/TY                  | 0.050     | mg/L |                  | 0.920                    | <0.050                 | 1.85                | <0.050            | ---- |
| Rubidium, dissolved         | 7440-17-7  | E421/TY                  | 0.00020   | mg/L |                  | 0.00195                  | <0.00020               | 0.00275             | <0.00020          | ---- |
| Selenium, dissolved         | 7782-49-2  | E421/TY                  | 0.000050  | mg/L |                  | 0.000172                 | <0.000050              | 0.000165            | <0.000050         | ---- |
| Silicon, dissolved          | 7440-21-3  | E421/TY                  | 0.050     | mg/L |                  | 6.92                     | 0.315 <sup>RRV</sup>   | 6.55                | <0.050            | ---- |
| Silver, dissolved           | 7440-22-4  | E421/TY                  | 0.000010  | mg/L |                  | <0.000020 <sup>DLM</sup> | <0.000010              | <0.000010           | <0.000010         | ---- |
| Sodium, dissolved           | 7440-23-5  | E421/TY                  | 0.050     | mg/L |                  | 0.879                    | 0.595 <sup>RRV</sup>   | 5.85                | <0.050            | ---- |
| Strontium, dissolved        | 7440-24-6  | E421/TY                  | 0.00020   | mg/L |                  | 0.0516                   | 0.00036 <sup>RRV</sup> | 0.0969              | <0.00020          | ---- |
| Sulfur, dissolved           | 7704-34-9  | E421/TY                  | 0.50      | mg/L |                  | <1.00 <sup>DLM</sup>     | <0.50                  | 0.60                | <0.50             | ---- |
| Tellurium, dissolved        | 13494-80-9 | E421/TY                  | 0.00020   | mg/L |                  | <0.00040 <sup>DLM</sup>  | <0.00020               | <0.00020            | <0.00020          | ---- |
| Thallium, dissolved         | 7440-28-0  | E421/TY                  | 0.000010  | mg/L |                  | <0.000020 <sup>DLM</sup> | <0.000010              | <0.000010           | <0.000010         | ---- |
| Thorium, dissolved          | 7440-29-1  | E421/TY                  | 0.00010   | mg/L |                  | <0.00020 <sup>DLM</sup>  | <0.00010               | <0.00010            | <0.00010          | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |                          |          |      | Client sample ID | SW02_SW_20240901 SW     | FB_SW_20240901 SW | SW06_SW_20240901 SW | TB_SW_20240901 SW | ---- |
|---------------------------------------|------------|--------------------------|----------|------|------------------|-------------------------|-------------------|---------------------|-------------------|------|
| Client sampling date / time           |            |                          |          |      |                  | 04-Sep-2024 11:55       | 04-Sep-2024 12:00 | 04-Sep-2024 12:00   | 04-Sep-2024 12:00 | ---- |
| Analyte                               | CAS Number | Method/Lab/Accreditation | LOR      | Unit |                  | TY2409915-016           | TY2409915-017     | TY2409915-018       | TY2409915-019     | ---- |
|                                       |            |                          |          |      |                  | Result                  | Result            | Result              | Result            | ---- |
| Dissolved Metals                      |            |                          |          |      |                  |                         |                   |                     |                   |      |
| Tin, dissolved                        | 7440-31-5  | E421/TY                  | 0.00010  | mg/L |                  | <0.00020 <sup>DLM</sup> | <0.00010          | <0.00010            | <0.00010          | ---- |
| Titanium, dissolved                   | 7440-32-6  | E421/TY                  | 0.00030  | mg/L |                  | <0.00060 <sup>DLM</sup> | <0.00030          | <0.00030            | <0.00030          | ---- |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY                  | 0.00010  | mg/L |                  | <0.00020 <sup>DLM</sup> | <0.00010          | <0.00010            | <0.00010          | ---- |
| Uranium, dissolved                    | 7440-61-1  | E421/TY                  | 0.000010 | mg/L |                  | 0.000048                | <0.000010         | 0.000149            | <0.000010         | ---- |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY                  | 0.00050  | mg/L |                  | <0.00100 <sup>DLM</sup> | <0.00050          | <0.00050            | <0.00050          | ---- |
| Zinc, dissolved                       | 7440-66-6  | E421/TY                  | 0.0010   | mg/L |                  | 0.0100                  | <0.0010           | 0.0011              | <0.0010           | ---- |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY                  | 0.00030  | mg/L |                  | <0.00060 <sup>DLM</sup> | <0.00030          | <0.00030            | <0.00030          | ---- |
| Dissolved mercury filtration location | ----       | EP509/WT                 | -        | -    |                  | Field                   | N/A               | Field               | N/A               | ---- |
| Dissolved metals filtration location  | ----       | EP421/TY                 | -        | -    |                  | Field                   | Field             | Field               | Field             | ---- |
| Aggregate Organics                    |            |                          |          |      |                  |                         |                   |                     |                   |      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY                  | 2.0      | mg/L |                  | <2.0                    | <2.0              | <2.0                | <2.0              | ---- |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY                | 10       | mg/L |                  | 87                      | <10               | 75                  | <10               | ---- |
| Oil & grease (gravimetric)            | ----       | E567-L/WT                | 1.0      | mg/L |                  | <1.0                    | <1.0              | <1.0                | <1.0              | ---- |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## ***Test Report***

SRC Group # 2024-11467

Sep 27, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Sep-11-2024

Client P.O.: TY2409915

---

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 Snook, Vicky

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

SRC Group # 2024-11467

Sep 27, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2024031370**  
Date Sampled: **Sep 03, 2024**  
Sample Matrix: **WATER**  
Description: **09/03/2024 10:40 SW23\_SW\_20240901 TY2409915-004**

Client PO #: **TY2409915**  
Date Received: **Sep 11, 2024**

| Analyte              | Units | Result | DL    |
|----------------------|-------|--------|-------|
| <b>Lab Section 4</b> |       |        |       |
| Radium-226*          | Bq/L  | 0.02   | 0.005 |

The temperature of the cooler was 10.1 °C upon receipt.

**SRC Group # 2024-11467**

Sep 27, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024031371** Client PO #: **TY2409915**  
Date Sampled: **Sep 03, 2024** Date Received: **Sep 11, 2024**  
Sample Matrix: **WATER**  
Description: **09/03/2024 11:00 SW24\_SW\_20240901 TY2409915-005**

| Analyte                                                 | Units | Result | DL    |
|---------------------------------------------------------|-------|--------|-------|
| <b>Lab Section 4</b>                                    |       |        |       |
| Radium-226*                                             | Bq/L  | 0.007  | 0.005 |
| The temperature of the cooler was 10.1 °C upon receipt. |       |        |       |

SRC Group # 2024-11467

Sep 27, 2024

ALS, Thunder Bay Analytical

|                |                                                        |                |                     |
|----------------|--------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024031372</b>                                      | Client PO #:   | <b>TY2409915</b>    |
| Date Sampled:  | <b>Sep 03, 2024</b>                                    | Date Received: | <b>Sep 11, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                           |                |                     |
| Description:   | <b>09/03/2024 13:30 SW20_SW_20240901 TY2409915-007</b> |                |                     |

| 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 10.1 °C upon receipt.

SRC Group # 2024-11467

Sep 27, 2024

ALS, Thunder Bay Analytical

Sample #: **2024031373** Client PO #: **TY2409915**  
Date Sampled: **Sep 04, 2024** Date Received: **Sep 11, 2024**  
Sample Matrix: **WATER**  
Description: **09/04/2024 08:15 SW22A\_SW\_20240901 TY2409915-011**

| 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 10.1 °C upon receipt.

SRC Group # 2024-11467

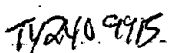
Sep 27, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |





**CHAIN OF CUSTODY RECORD - ALS-455403750**

**COC Number:** ALS-455403750

## Preservatives

Ra-226  
Bottle

21

2

NG-SW-P-TB

RA226-MMER-BE



Telephone : +1 807 623 6463

Number of Containers

### Comments

[illegible]

| Signature              | Date/Time                        | Shipping Details                                                       | ATTN | Special Instructions:                                 |
|------------------------|----------------------------------|------------------------------------------------------------------------|------|-------------------------------------------------------|
| Shipped by             | 9/5/2024 9:00:00 AM              | Method of Shipment: Courier<br>On Ice: yes / no<br>Shipped: Air/Ground |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
| Received by: <i>AR</i> | <i>09-06-2024</i><br><i>9:19</i> | Lab Name: ALS Thunder Bay<br>Lab Phone: 1                              |      | Email Report to:<br>rainyriver.labresults@newgold.com |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 9/5/2024 9:00:00 AM<br><b>COC Number:</b> ALS-455403750 |                               |                     |                 |                  |        | Containers    |               | SW Kit | Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|--------|---------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | Filtered      |               | N      | N             |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | Preservatives |               |        |               |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        |               |               |        |               |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |        |               |  |  |  |  |  |    |  |                      |          |
| SW24_SW_20240901                                                                                                                                                                                                                                                                                                           | 4.07                          | 7.39                | 18              | 09/03/2024 12:00 | SW     |               | X             |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW29A_SW_20240901                                                                                                                                                                                                                                                                                                          | 0.5                           | 7.05                | 14.97           | 09/03/2024 12:45 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW20_SW_20240901                                                                                                                                                                                                                                                                                                           | 2.07                          | 7.12                | 15.58           | 09/03/2024 14:30 | SW     | X             |               |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW20_SW_20240901                                                                                                                                                                                                                                                                                                           | 2.07                          | 7.12                | 15.58           | 09/03/2024 14:30 | SW     |               | X             |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW28A_SW_20240901                                                                                                                                                                                                                                                                                                          | 5.72                          | 7.6                 | 15.43           | 09/03/2024 14:50 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW10_SW_20240901                                                                                                                                                                                                                                                                                                           | 6.13                          | 7.54                | 19.33           | 09/03/2024 15:15 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |

| Signature   | Date/Time           | Shipping Details            | ATTN | Special Instructions:             |
|-------------|---------------------|-----------------------------|------|-----------------------------------|
| Shipped by  | 9/5/2024 9:00:00 AM | Method of Shipment: Courier |      |                                   |
|             |                     | On Ice: yes / no            |      |                                   |
| Received by |                     | Shipped: Air/Ground         |      | Email Invoice to:                 |
|             |                     | Lab Name: ALS Thunder Bay   |      | rainyriver.accounts1@newgold.com  |
|             |                     | Lab Phone:                  |      | Email Report to:                  |
|             |                     |                             |      | rainyriver.labresults@newgold.com |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 9/5/2024 9:00:00 AM<br><b>COC Number:</b> ALS-455403750 |                               |                     |                 |                  |        | <b>Containers</b><br>SW Kit<br>Ra-226 Bottle |               |  |  |  |  |  |  |  |    | <b>Number of Containers</b> | <b>Comments</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------------------------------|---------------|--|--|--|--|--|--|--|----|-----------------------------|-----------------|
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | <b>Filtered</b><br>N<br>N                    |               |  |  |  |  |  |  |  |    |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | <b>Preservatives</b>                         |               |  |  |  |  |  |  |  |    |                             |                 |
|                                                                                                                                                                                                                                                                                                                            |                               |                     |                 |                  |        | NG-SW-P-TB<br>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 |  |  |  |  |  |  |  |    |                             |                 |
| SW03_SW_20240901                                                                                                                                                                                                                                                                                                           | 1.04                          | 7.32                | 17.61           | 09/03/2024 15:40 | SW     | X                                            |               |  |  |  |  |  |  |  | 11 |                             |                 |
| SW22A_SW_20240901                                                                                                                                                                                                                                                                                                          | 2.35                          | 7.08                | 17.7            | 09/04/2024 09:15 | SW     | X                                            |               |  |  |  |  |  |  |  | 12 |                             |                 |
| SW22A_SW_20240901                                                                                                                                                                                                                                                                                                          | 2.35                          | 7.08                | 17.7            | 09/04/2024 09:15 | SW     |                                              | X             |  |  |  |  |  |  |  | 12 |                             |                 |
| SW21A_SW_20240901                                                                                                                                                                                                                                                                                                          | 2.59                          | 7.22                | 16.67           | 09/04/2024 10:55 | SW     | X                                            |               |  |  |  |  |  |  |  | 11 |                             |                 |
| SW26_SW_20240901                                                                                                                                                                                                                                                                                                           | 3.95                          | 7.42                | 17.5            | 09/04/2024 10:55 | SW     | X                                            |               |  |  |  |  |  |  |  | 11 |                             |                 |
| SW25_SW_20240901                                                                                                                                                                                                                                                                                                           | 2.63                          | 7.09                | 17.6            | 09/04/2024 11:20 | SW     | X                                            |               |  |  |  |  |  |  |  | 11 |                             |                 |

| Signature   | Date/Time           | Shipping Details            | ATTN | Special Instructions:             |
|-------------|---------------------|-----------------------------|------|-----------------------------------|
| Shipped by  | 9/5/2024 9:00:00 AM | Method of Shipment: Courier |      |                                   |
|             |                     | On Ice: yes / no            |      |                                   |
| Received by |                     | Shipped: Air/Ground         |      | Email Invoice to:                 |
|             |                     | Lab Name: ALS Thunder Bay   |      | rainyriver.accounts1@newgold.com  |
|             |                     | Lab Phone:                  |      | Email Report to:                  |
|             |                     |                             |      | rainyriver.labresults@newgold.com |



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

| Sample Receipt Details (ALS use only)                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input checked="" type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input checked="" 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                                                                                                                                                                                   |  |
| 12.9, 9.3, 13.4, 10.6, 12.5, 12.1, 6.3, 10.9, 9.8                                                                                                                                                              |  |

| Signature   | Date/Time           | Shipping Details                                               | ATTN | Special Instructions:                                                                                          |
|-------------|---------------------|----------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|
| Shipped by  | 9/5/2024 9:00:00 AM | Method of Shipment: Courier<br>On Ice: yes / no                |      |                                                                                                                |
| Received by |                     | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |

# Intake and Login Verification Form

| SAMPLE INTAKE                                 |                                        |                                            |                                     | ACCOUNT INFO VERIFICATION                                        |              |          |    |
|-----------------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------------|------------------------------------------------------------------|--------------|----------|----|
| Priority/Emergency Service Requested          |                                        | YES                                        | <input checked="" type="radio"/> NO | Priority/Emergency Service Requested                             |              | YES      | NO |
| Time Sensitive Hold Time                      |                                        | YES                                        | <input checked="" type="radio"/> NO | Confirmed all as accurate as per COC, Sample Remarks or PM       |              |          |    |
| Client:                                       | New hold - Rainy River                 |                                            |                                     | Client                                                           | Work Contact | Quote    |    |
| SAMPLE RECEIPT INFORMATION                    |                                        |                                            |                                     | RECEIPT DETAIL                                                   |              |          |    |
| Mode of Delivery:                             |                                        | <input checked="" type="radio"/> Courier   | Drop Off                            | Project                                                          | PO           | Site/LSD |    |
| Courier                                       |                                        | Maritoulin                                 |                                     | Overall Description Entered                                      |              | Yes      | NA |
| Waybill Number                                |                                        | 3303334247                                 |                                     | Received date/time as per COC                                    |              |          |    |
| Temperature 12.9, 9.3, 13.4, 10.6, 12.5, 10.1 |                                        | Cooler Count 9                             |                                     | Recipients match CoC or Sample Remarks                           |              | Yes      | No |
| Cooling Method                                |                                        | None                                       | Ice                                 | Billing Instruction added to remarks                             |              | Yes      | NA |
|                                               |                                        | <input checked="" type="radio"/> Ice Packs |                                     | Sample Remarks/Specification Doc checked                         |              |          |    |
| SAMPLE MATRIX/BOTTLE INFORMATION              |                                        |                                            |                                     | VERIFICATION CHECKLIST                                           |              |          |    |
| Matrix:                                       | <input checked="" type="radio"/> Water | Soil                                       | Air                                 | Biota                                                            | Other        |          |    |
| DW Schedule 24 Bottles Correct?               |                                        | Yes                                        | No                                  | Submission Issues communicated                                   |              | Yes      | NA |
| DW Metals pH Check <2                         |                                        | Yes                                        | No                                  | Sample Info communicated via Remarks                             |              | Yes      | NA |
| Regulation Circled, Works # present           |                                        | Yes                                        | No - Reject?                        | Planned Event Submission                                         |              |          |    |
| # of Bottles:                                 | 12                                     | Sample Count                               | 19                                  | Sample Name entered as per CoC                                   |              |          |    |
| Green/white                                   | 19 R, 19 BOD                           |                                            |                                     | Sampling Date and time entered as per CoC                        |              |          |    |
| Purple/white                                  | 19 NUTS, 19 TOC, 19 DOC                |                                            |                                     | Containers selected in layout order                              |              |          |    |
| Warm red/white                                | 19 T-m, 19 DM, 4 RADIUM                |                                            |                                     | Sales items entered from QUOTE ONLY (and/or verified as correct) |              |          |    |
| Yellow/black                                  | 19 T-Hg, 19 D-Hg, 2 x 19 ORN           |                                            |                                     | Field Data/EC298A removed if not on COC                          |              | Yes      | NA |
| Light blue/white                              |                                        |                                            |                                     | Bottle Allocation Verified                                       |              |          |    |
| Orange/black                                  |                                        |                                            |                                     | Guideline added or auto-allocated                                |              |          |    |
| Others (detail)                               | 19 CYANIDE                             |                                            |                                     | Due dates updated                                                |              |          |    |
| Comments on Samples and Bottles:              |                                        |                                            |                                     | VALIDATION                                                       |              |          |    |
| 6th fl - (SN-29A) - Received T. Hg Vial empty |                                        |                                            |                                     | Validation errors resolved?                                      |              | Yes      | No |
| Samples Requiring Preservation or Filtering:  |                                        |                                            |                                     | Internal Sublet CoC created                                      |              | Yes      | NA |
| Layout Staff Initials                         |                                        |                                            |                                     | Login Comments:                                                  |              |          |    |
| Date and Time of Layout                       |                                        | AC 09-06-24 / 11:07                        |                                     | Pour off from BOD                                                |              |          |    |
|                                               |                                        |                                            |                                     | Login Staff Initials:                                            |              | ANG      |    |

CERTIFICATE OF ANALYSIS

|                         |                                                      |                         |                                                       |
|-------------------------|------------------------------------------------------|-------------------------|-------------------------------------------------------|
| Work Order              | : TY2409909                                          | Page                    | : 1 of 4                                              |
| Client                  | : New Gold Inc. (Rainy River)                        | Laboratory              | : ALS Environmental - Thunder Bay                     |
| Contact                 | : Garnet.Cornell@newgold.com Garnet Cornell          | Account Manager         | : Christine Paradis                                   |
| Address                 | : 24 Marr Rd.<br>Barwick ON Canada P0W 1A0           | Address                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| Telephone               | : 807 234 8170                                       | Telephone               | : +1 807 623 6463                                     |
| Project                 | : Methyl Mercury                                     | Date Samples Received   | : 06-Sep-2024 09:19                                   |
| PO                      | : 4700003796                                         | Date Analysis Commenced | : 06-Sep-2024                                         |
| C-O-C number            | : ----                                               | Issue Date              | : 01-Oct-2024 15:56                                   |
| Sampler                 | : ----                                               |                         |                                                       |
| Site                    | : New Gold Inc. (Rainy River)                        |                         |                                                       |
| Quote number            | : New Gold Rainy River Project - Pick a Project 2024 |                         |                                                       |
| No. of samples received | : 6                                                  |                         |                                                       |
| No. of samples analysed | : 6                                                  |                         |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories   | Position                          | Laboratory Department                |
|---------------|-----------------------------------|--------------------------------------|
| Jin Kim       | Analyst                           | Metals, Burnaby, British Columbia    |
| Jon Fisher    | Production Manager, Environmental | Metals, Waterloo, Ontario            |
| Raymond Lin   | Analyst                           | Metals, Burnaby, British Columbia    |
| Taelur Kachur | Laboratory Analyst                | Administration, Thunder Bay, Ontario |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| Unit     | Description          |
|----------|----------------------|
| -        | no units             |
| °C       | degrees celsius      |
| µg/L     | micrograms per litre |
| mg/L     | milligrams per litre |
| pH units | pH units             |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.





Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |          | Client sample ID     | 1 - TEEPLE<br>CULVERT_MM_<br>20240903<br>SW | 2 -<br>SW20_MM_202<br>40903<br>SW | 3 -<br>SW10_MM_202<br>40903<br>SW | 4 -<br>SW22A_MM_20<br>240904<br>SW | 5 -<br>SW03_MM_202<br>40903<br>SW |
|----------------------------------------------|------------|------------|-----------|----------|----------------------|---------------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|
| Client sampling date / time                  |            |            |           |          | 03-Sep-2024<br>14:15 | 03-Sep-2024<br>14:30                        | 03-Sep-2024<br>15:15              | 04-Sep-2024<br>09:15              | 03-Sep-2024<br>15:40               |                                   |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit     | TY2409909-001        | TY2409909-002                               | TY2409909-003                     | TY2409909-004                     | TY2409909-005                      |                                   |
|                                              |            |            |           |          | Result               | Result                                      | Result                            | Result                            | Result                             |                                   |
| Field Tests                                  |            |            |           |          |                      |                                             |                                   |                                   |                                    |                                   |
| Oxygen, dissolved, field                     | ----       | EF001/TY   | 0.01      | mg/L     | ----                 | 2.12                                        | 6.07                              | 2.35                              | 1.04                               |                                   |
| pH, field                                    | ----       | EF001/TY   | 0.10      | pH units | ----                 | 7.12                                        | 7.54                              | 7.08                              | 7.32                               |                                   |
| Temperature, field                           | ----       | EF001/TY   | 0.10      | °C       | ----                 | 15.6                                        | 19.3                              | 17.7                              | 17.6                               |                                   |
| Total Metals                                 |            |            |           |          |                      |                                             |                                   |                                   |                                    |                                   |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L     | <0.0000050           | ----                                        | ----                              | ----                              | ----                               |                                   |
| Dissolved Metals                             |            |            |           |          |                      |                                             |                                   |                                   |                                    |                                   |
| Mercury, dissolved                           | 7439-97-6  | E509/WT    | 0.0000050 | mg/L     | <0.0000050           | ----                                        | ----                              | ----                              | ----                               |                                   |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -         | -        | Field                | ----                                        | ----                              | ----                              | ----                               |                                   |
| Speciated Metals                             |            |            |           |          |                      |                                             |                                   |                                   |                                    |                                   |
| Methylmercury (as MeHg), total               | 22967-92-6 | E536/VA    | 0.000020  | µg/L     | 0.000578             | 0.000226                                    | 0.000298                          | 0.000344                          | 0.000575                           |                                   |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                |            |            |          |          |                                   |       |       |       |       |
|--------------------------------|------------|------------|----------|----------|-----------------------------------|-------|-------|-------|-------|
|                                |            |            |          |          | 6 -<br>SW24_MM_202<br>40903<br>SW | ---   | ---   | ---   | ---   |
| Client sampling date / time    |            |            |          |          | 03-Sep-2024<br>12:00              | ---   | ---   | ---   | ---   |
| Analyte                        | CAS Number | Method/Lab | LOR      | Unit     | TY2409909-006                     | ----- | ----- | ----- | ----- |
|                                |            |            |          |          | Result                            | ---   | ---   | ---   | ---   |
| Field Tests                    |            |            |          |          |                                   |       |       |       |       |
| Oxygen, dissolved, field       | ----       | EF001/TY   | 0.01     | mg/L     | 4.07                              | ---   | ---   | ---   | ---   |
| pH, field                      | ----       | EF001/TY   | 0.10     | pH units | 7.39                              | ---   | ---   | ---   | ---   |
| Temperature, field             | ----       | EF001/TY   | 0.10     | °C       | 18.1                              | ---   | ---   | ---   | ---   |
| Speciated Metals               |            |            |          |          |                                   |       |       |       |       |
| Methylmercury (as MeHg), total | 22967-92-6 | E536/VA    | 0.000020 | µg/L     | 0.000454                          | ----  | ----  | ----  | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

12.9, 9.3, 13.4, 10.6, 12.5, 10.1, 6.3, 10.9, 9.8

# Intake and Login Verification Form

| SAMPLE INTAKE                                  |                                          |                                     |                                            |
|------------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|
| Priority/Emergency Service Requested           | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Time Sensitive Hold Time                       | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Client:                                        | New hold - Rainy River                   |                                     |                                            |
| SAMPLE RECEIPT INFORMATION                     |                                          |                                     |                                            |
| Mode of Delivery:                              | <input checked="" type="radio"/> Courier | Drop Off                            |                                            |
| Courier                                        | Marlow 10                                |                                     |                                            |
| Waybill Number                                 | 3803334247                               |                                     |                                            |
| Temperature (2.9, 9.3, 13.4, 10.4, 12.5, 10.1) | Cooler Count 9                           |                                     |                                            |
| Cooling Method                                 | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION               |                                          |                                     |                                            |
| Matrix:                                        | <input checked="" type="radio"/> Water   | Soil                                | Air                                        |
|                                                |                                          | Biota                               | Other                                      |
| DW Schedule 24 Bottles Correct?                |                                          | Yes                                 | No                                         |
| DW Metals pH Check <2                          |                                          | Yes                                 | No                                         |
| Regulation Circled, Works # present            | Yes                                      | No - Reject?                        |                                            |
| # of Bottles: 4                                | Sample Count                             |                                     | 6                                          |
| Green/white                                    | 1 BOD                                    |                                     |                                            |
| Purple/white                                   |                                          |                                     |                                            |
| Warm red/white                                 |                                          |                                     |                                            |
| Yellow/black                                   | 1 T-Hg, 10-Hg, 6 Methyl Hg               |                                     |                                            |
| Light blue/white                               |                                          |                                     |                                            |
| Orange/black                                   |                                          |                                     |                                            |
| Others (detail)                                |                                          |                                     |                                            |
| Comments on Samples and Bottles:               |                                          |                                     |                                            |
| Samples Requiring Preservation or Filtering:   |                                          |                                     |                                            |
| Layout Staff Initials                          | AC                                       |                                     |                                            |
| Date and Time of Layout                        | 09-06-24 11:14                           |                                     |                                            |

| ACCOUNT INFO VERIFICATION                                        |              |          |
|------------------------------------------------------------------|--------------|----------|
| Priority/Emergency Service Requested                             | YES          | NO       |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |              |          |
| Client                                                           | Work Contact | Quote    |
| RECEIPT DETAIL                                                   |              |          |
| Project                                                          | PO           | Site/LSD |
| Overall Description Entered                                      | Yes          | NA       |
| Received date/time as per COC                                    |              |          |
| Recipients match CoC or Sample Remarks                           | Yes          | No       |
| Billing Instruction added to remarks                             | Yes          | NA       |
| Sample Remarks/Specification Doc checked                         |              |          |
| Submission Issues communicated                                   | Yes          | NA       |
| Sample Info communicated via Remarks                             | Yes          | NA       |
| VERIFICATION CHECKLIST                                           |              |          |
| Planned Event Submission                                         | Yes          | No       |
| Sample Name entered as per CoC                                   |              |          |
| Sampling Date and time entered as per CoC                        |              |          |
| Containers selected in layout order                              |              |          |
| Sales items entered from QUOTE ONLY (and/or verified as correct) |              |          |
| Field Data/EC298A removed if not on COC                          | Yes          | NA       |
| Bottle Allocation Verified                                       |              |          |
| Guideline added or auto-allocated                                |              |          |
| Due dates updated                                                |              |          |
| VALIDATION                                                       |              |          |
| Validation errors resolved?                                      | Yes          | No       |
| Internal Sublet CoC created                                      | Yes          | NA       |
| Login Comments:                                                  |              |          |
| Login Staff Initials:                                            | ANB          |          |

## CERTIFICATE OF ANALYSIS

|                                |                                                      |                                |                                                       |
|--------------------------------|------------------------------------------------------|--------------------------------|-------------------------------------------------------|
| <b>Work Order</b>              | : <b>TY2411187</b>                                   |                                |                                                       |
| <b>Client</b>                  | : <b>New Gold Inc. (Rainy River)</b>                 | <b>Laboratory</b>              | : ALS Environmental - Thunder Bay                     |
| <b>Contact</b>                 | : Garnet.Cornell@newgold.com Garnet Cornell          | <b>Account Manager</b>         | : Christine Paradis                                   |
| <b>Address</b>                 | : 24 Marr Rd.<br>Barwick Ontario Canada P0W 1A0      | <b>Address</b>                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| <b>Telephone</b>               | : 807 234 8170                                       | <b>Telephone</b>               | : +1 807 623 6463                                     |
| <b>Project</b>                 | : Surface Water                                      | <b>Date Samples Received</b>   | : 03-Oct-2024 09:10                                   |
| <b>PO</b>                      | : 4700003796                                         | <b>Date Analysis Commenced</b> | : 04-Oct-2024                                         |
| <b>C-O-C number</b>            | : ----                                               | <b>Issue Date</b>              | : 18-Nov-2024 16:58                                   |
| <b>Sampler</b>                 | : ----                                               |                                |                                                       |
| <b>Site</b>                    | : New Gold Inc. (Rainy River)                        |                                |                                                       |
| <b>Quote number</b>            | : New Gold Rainy River Project - Pick a Project 2024 |                                |                                                       |
| <b>No. of samples received</b> | : 12                                                 |                                |                                                       |
| <b>No. of samples analysed</b> | : 12                                                 |                                |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i>   | <i>Position</i>                        | <i>Laboratory Department</i>                     |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics               | Administration, Thunder Bay, Ontario             |
| Jon Fisher           | Production Manager, Environmental      | Metals, Waterloo, Ontario                        |
| Jon Fisher           | Production Manager, Environmental      | Inorganics, Waterloo, Ontario                    |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario                 |
| Julie Ruoho          | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |
| Manuel Tavaratello   | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Nik Perkio           | Senior Analyst                         | Metals, Waterloo, Ontario                        |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario                 |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| mg/L     | milligrams per litre            |
| pH units | pH units                        |
| °C       | degrees celsius                 |
| NTU      | nephelometric turbidity units   |
| CU       | colour units (1 cu = 1 mg/l pt) |
| µS/cm    | microsiemens per centimetre     |
| -        | no units                        |
| Bq/L     | becquerels per litre            |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                             |            |              |        |          | Client sample ID | SW16_SW_20241001 SW | SW20_SW_20241001 SW     | SW17_SW_20241001 SW     | SW15_SW_20241001 SW     | SW28A_SW_20241001 SW    |
|---------------------------------------------|------------|--------------|--------|----------|------------------|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Client sampling date / time                 |            |              |        |          |                  | 01-Oct-2024 10:25   | 01-Oct-2024 11:10       | 01-Oct-2024 11:15       | 01-Oct-2024 11:40       | 01-Oct-2024 11:45       |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2411187-001       | TY2411187-002           | TY2411187-003           | TY2411187-004           | TY2411187-005           |
|                                             |            |              |        |          |                  | Result              | Result                  | Result                  | Result                  | Result                  |
| Field Tests                                 |            |              |        |          |                  |                     |                         |                         |                         |                         |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     |                  | 8.21                | 0.08                    | 8.02                    | 5.54                    | 6.77                    |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units |                  | 7.22                | 7.10                    | 7.39                    | 7.25                    | 7.44                    |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       |                  | 16.2                | 11.9                    | 17.0                    | 14.2                    | 12.0                    |
| Physical Tests                              |            |              |        |          |                  |                     |                         |                         |                         |                         |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     |                  | 2.3                 | 4.0                     | 2.2                     | 2.9                     | 2.1                     |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       |                  | 32.4                | 122                     | 41.6                    | 308                     | 92.4                    |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    |                  | 70.4                | 299                     | 78.9                    | 197                     | 197                     |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     |                  | 28.3                | 142                     | 34.1                    | 109                     | 116                     |
| pH                                          | ----       | E108/TY      | 0.10   | pH units |                  | 7.40                | 7.65                    | 7.47                    | 7.73                    | 7.83                    |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     |                  | 58                  | 229                     | 61                      | 198                     | 155                     |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     |                  | 12.8                | <3.0                    | 4.6                     | 7.2                     | 6.6                     |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      |                  | 7.28                | 1.41                    | 3.65                    | 8.98                    | 2.37                    |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     |                  | 27.5                | 130                     | 33.1                    | 98.0                    | 110                     |
| Anions and Nutrients                        |            |              |        |          |                  |                     |                         |                         |                         |                         |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | <0.0050             | 0.0244 <sup>&lt;T</sup> | 0.0056 <sup>&lt;T</sup> | 0.0417 <sup>&lt;T</sup> | 0.0112 <sup>&lt;T</sup> |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010             | <0.0010                 | <0.0010                 | <0.0010                 | <0.0010                 |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 2.19                | 22.1                    | 2.26                    | 3.44                    | 0.71                    |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.028               | 0.048                   | 0.029                   | 0.040                   | 0.041                   |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     |                  | 0.482               | 1.20                    | 0.455                   | 1.34                    | 1.05                    |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | <0.020              | <0.020                  | <0.020                  | <0.020                  | <0.020                  |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     |                  | <0.010              | <0.010                  | <0.010                  | <0.010                  | <0.010                  |





## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |             |           |      | Client sample ID | SW16_SW_20241001 SW        | SW20_SW_20241001 SW      | SW17_SW_20241001 SW        | SW15_SW_20241001 SW        | SW28A_SW_20241001 SW     |
|------------------------------------------|------------|-------------|-----------|------|------------------|----------------------------|--------------------------|----------------------------|----------------------------|--------------------------|
| Client sampling date / time              |            |             |           |      |                  | 01-Oct-2024 10:25          | 01-Oct-2024 11:10        | 01-Oct-2024 11:15          | 01-Oct-2024 11:40          | 01-Oct-2024 11:45        |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit |                  | TY2411187-001              | TY2411187-002            | TY2411187-003              | TY2411187-004              | TY2411187-005            |
|                                          |            |             |           |      |                  | Result                     | Result                   | Result                     | Result                     | Result                   |
| Anions and Nutrients                     |            |             |           |      |                  |                            |                          |                            |                            |                          |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L |                  | 0.0013                     | 0.0176                   | 0.0011                     | 0.0273                     | 0.0015                   |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L |                  | 3.81                       | 0.48                     | 3.51                       | 4.78                       | <0.30                    |
| Cyanides                                 |            |             |           |      |                  |                            |                          |                            |                            |                          |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                    | <0.0020                  |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                    | <0.0020                  |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020                    | <0.0020                  |
| Organic / Inorganic Carbon               |            |             |           |      |                  |                            |                          |                            |                            |                          |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L |                  | 12.8                       | 32.8                     | 15.5                       | 48.2                       | 33.5                     |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L |                  | 11.5                       | 32.2                     | 13.8                       | 46.9                       | 31.7                     |
| Total Metals                             |            |             |           |      |                  |                            |                          |                            |                            |                          |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L |                  | 0.251                      | 0.0755                   | 0.140                      | 0.426                      | 0.114                    |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                 | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                 |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L |                  | 0.00061 <sup>&lt;T</sup>   | 0.00121 <sup>&lt;T</sup> | 0.00063 <sup>&lt;T</sup>   | 0.00212 <sup>&lt;T</sup>   | 0.00108 <sup>&lt;T</sup> |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L |                  | 0.0102                     | 0.0142                   | 0.00980                    | 0.0199                     | 0.0128                   |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L |                  | 0.000025 <sup>&lt;T</sup>  | <0.000020                | <0.000020                  | 0.000042 <sup>&lt;T</sup>  | <0.000020                |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L |                  | <0.000050                  | <0.000050                | <0.000050                  | <0.000100 <sup>DLM</sup>   | <0.000050                |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L |                  | <0.010                     | 0.014 <sup>&lt;T</sup>   | 0.011 <sup>&lt;T</sup>     | <0.020 <sup>DLM</sup>      | 0.012 <sup>&lt;T</sup>   |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L |                  | 0.0000170 <sup>&lt;T</sup> | <0.0000050               | 0.0000141 <sup>&lt;T</sup> | 0.0000221 <sup>&lt;T</sup> | <0.0000050               |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L |                  | 8.14                       | 34.8                     | 9.29                       | 26.9                       | 27.5                     |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L |                  | 0.000055                   | <0.000010                | 0.000027                   | 0.000054                   | 0.000018                 |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L |                  | 0.00070 <sup>&lt;T</sup>   | <0.00050                 | 0.00053 <sup>&lt;T</sup>   | <0.00100 <sup>DLM</sup>    | <0.00050                 |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW16_SW_20241001 SW | SW20_SW_20241001 SW | SW17_SW_20241001 SW | SW15_SW_20241001 SW | SW28A_SW_20241001 SW |
|-----------------------------|------------|------------|-----------|------|------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Client sampling date / time |            |            |           |      |                  | 01-Oct-2024 10:25   | 01-Oct-2024 11:10   | 01-Oct-2024 11:15   | 01-Oct-2024 11:40   | 01-Oct-2024 11:45    |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2411187-001       | TY2411187-002       | TY2411187-003       | TY2411187-004       | TY2411187-005        |
|                             |            |            |           |      |                  | Result              | Result              | Result              | Result              | Result               |
| <b>Total Metals</b>         |            |            |           |      |                  |                     |                     |                     |                     |                      |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L |                  | 0.00018 <T          | 0.00026 <T          | 0.00011 <T          | 0.00046 <T          | 0.00025 <T           |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | 0.00136 <T          | <0.00050            | 0.00127 <T          | 0.00220 <T          | 0.00061 <T           |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | 0.417               | 0.508               | 0.223               | 1.07                | 0.374                |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | 0.000205 <T         | <0.000050           | 0.000133 <T         | 0.000450 <T         | 0.000081 <T          |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | 0.0013 <T           | 0.0041 <T           | 0.0012 <T           | 0.0047 <T           | 0.0034 <T            |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | 2.54                | 14.6                | 2.90                | 12.8                | 12.4                 |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | 0.0170              | 0.116               | 0.0213              | 0.116               | 0.116                |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050          | <0.0000050          | <0.0000050          | <0.0000050          | <0.0000050           |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | 0.000129 <T         | 0.000181 <T         | 0.000148 <T         | 0.000280 <T         | 0.000217 <T          |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | 0.00104 <T          | 0.00131 <T          | 0.00088 <T          | 0.00212 <T          | 0.00102 <T           |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050              | 0.061               | <0.050              | <0.100 DLM          | <0.050               |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | 0.811               | 1.72                | 0.809               | 1.38                | 0.799                |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00259             | 0.00214             | 0.00214             | 0.00246             | 0.00168              |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | 0.000094 <T         | 0.000188 <T         | 0.000099 <T         | 0.000196 <T         | 0.000174 <T          |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | 2.10                | 4.57                | 1.86                | 5.70                | 3.59                 |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000010           | <0.000020 DLM       | <0.000010            |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | 3.30                | 12.3                | 3.28                | 3.19                | 1.12                 |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | 0.0216              | 0.0761              | 0.0241              | 0.0585              | 0.0532               |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | 1.33                | 0.52                | 1.10                | 1.71                | <0.50                |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020            | <0.00020            | <0.00020            | <0.00040 DLM        | <0.00020             |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | 0.000017 <T         | <0.000010           | <0.000010           | <0.000020 DLM       | <0.000010            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW16_SW_20241001 SW       | SW20_SW_20241001 SW       | SW17_SW_20241001 SW       | SW15_SW_20241001 SW       | SW28A_SW_20241001 SW      |
|-----------------------------|------------|------------|-----------|------|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Client sampling date / time |            |            |           |      |                  | 01-Oct-2024 10:25         | 01-Oct-2024 11:10         | 01-Oct-2024 11:15         | 01-Oct-2024 11:40         | 01-Oct-2024 11:45         |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2411187-001             | TY2411187-002             | TY2411187-003             | TY2411187-004             | TY2411187-005             |
|                             |            |            |           |      |                  | Result                    | Result                    | Result                    | Result                    | Result                    |
| Total Metals                |            |            |           |      |                  |                           |                           |                           |                           |                           |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                  | <0.00010                  | <0.00020 <sup>DLM</sup>   | <0.00010                  |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                  | 0.00024                   | <0.00020 <sup>DLM</sup>   | <0.00010                  |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | 0.00867                   | 0.00242                   | 0.00469                   | 0.0147                    | 0.00404                   |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                  | <0.00010                  | <0.00020 <sup>DLM</sup>   | <0.00010                  |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | 0.000094 <sup>&lt;T</sup> | 0.000197 <sup>&lt;T</sup> | 0.000090 <sup>&lt;T</sup> | 0.000535 <sup>&lt;T</sup> | 0.000234 <sup>&lt;T</sup> |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | 0.00116                   | 0.00063                   | 0.00085                   | 0.00236                   | 0.00078                   |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | 0.0054 <sup>&lt;T</sup>   | <0.0030                   | 0.0032 <sup>&lt;T</sup>   | <0.0060 <sup>DLM</sup>    | <0.0030                   |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00030                   | 0.00028                   | 0.00058                   | 0.00077                   | <0.00020                  |
| Dissolved Metals            |            |            |           |      |                  |                           |                           |                           |                           |                           |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | 0.0136                    | 0.0082                    | 0.0177                    | 0.0845                    | 0.0065                    |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                  | <0.00010                  | <0.00050 <sup>DLM</sup>   | <0.00050 <sup>DLM</sup>   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | 0.00047                   | 0.00113                   | 0.00055                   | 0.00196                   | 0.00088                   |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | 0.00810                   | 0.0132                    | 0.00870                   | 0.0176                    | 0.0112                    |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020                 | <0.000020                 | <0.000020                 | <0.000100 <sup>DLM</sup>  | <0.000100 <sup>DLM</sup>  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                 | <0.000050                 | <0.000050                 | <0.000250 <sup>DLM</sup>  | <0.000250 <sup>DLM</sup>  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | <0.010                    | 0.014                     | <0.010                    | <0.050 <sup>DLM</sup>     | <0.050 <sup>DLM</sup>     |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | 0.0000059                 | <0.0000050                | 0.0000069                 | <0.0000250 <sup>DLM</sup> | <0.0000250 <sup>DLM</sup> |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | 7.72                      | 34.0                      | 8.91                      | 23.7                      | 27.4                      |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                 | <0.000010                 | <0.000010                 | <0.000050 <sup>DLM</sup>  | <0.000050 <sup>DLM</sup>  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050                  | <0.00050                  | <0.00050                  | <0.00250 <sup>DLM</sup>   | <0.00250 <sup>DLM</sup>   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                  | 0.00023                   | <0.00010                  | <0.00050 <sup>DLM</sup>   | <0.00050 <sup>DLM</sup>   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW16_SW_20241001 SW | SW20_SW_20241001 SW | SW17_SW_20241001 SW | SW15_SW_20241001 SW | SW28A_SW_20241001 SW |
|-----------------------------|------------|------------|-----------|------|------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Client sampling date / time |            |            |           |      |                  | 01-Oct-2024 10:25   | 01-Oct-2024 11:10   | 01-Oct-2024 11:15   | 01-Oct-2024 11:40   | 01-Oct-2024 11:45    |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2411187-001       | TY2411187-002       | TY2411187-003       | TY2411187-004       | TY2411187-005        |
|                             |            |            |           |      |                  | Result              | Result              | Result              | Result              | Result               |
| Dissolved Metals            |            |            |           |      |                  |                     |                     |                     |                     |                      |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00098             | 0.00037             | 0.00096             | 0.00189             | <0.00100 DLM         |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | 0.040               | 0.360               | 0.065               | 0.623               | 0.132                |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050           | <0.000050           | <0.000050           | <0.000250 DLM       | <0.000250 DLM        |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | <0.0010             | 0.0042              | <0.0010             | <0.0050 DLM         | <0.0050 DLM          |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | 2.20                | 13.8                | 2.88                | 12.2                | 11.7                 |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | 0.00226             | 0.106               | 0.00744             | 0.0917              | 0.0239               |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050          | <0.0000050          | <0.0000050          | <0.0000050          | <0.0000050           |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | 0.000129            | 0.000155            | 0.000147            | <0.000250 DLM       | <0.000250 DLM        |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | 0.00053             | 0.00128             | 0.00055             | <0.00250 DLM        | <0.00250 DLM         |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050              | <0.050              | <0.050              | <0.250 DLM          | <0.250 DLM           |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | 0.722               | 1.66                | 0.773               | 1.30                | 0.773                |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | 0.00168             | 0.00200             | 0.00172             | 0.00155             | 0.00124              |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | 0.000119            | 0.000192            | 0.000115            | <0.000250 DLM       | <0.000250 DLM        |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 1.58                | 4.56                | 1.70                | 5.38                | 3.53                 |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000010           | <0.000050 DLM       | <0.000050 DLM        |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 3.25                | 11.5                | 3.20                | 3.28                | 1.16                 |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | 0.0211              | 0.0768              | 0.0231              | 0.0481              | 0.0507               |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | 1.36                | 0.60                | 1.26                | <2.50 DLM           | <2.50 DLM            |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020            | <0.00020            | <0.00020            | <0.00100 DLM        | <0.00100 DLM         |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000010           | <0.000050 DLM       | <0.000050 DLM        |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | <0.00010            | <0.00050 DLM        | <0.00050 DLM         |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                       |            |            |          |      | Client sample ID | SW16_SW_20241001 SW | SW20_SW_20241001 SW | SW17_SW_20241001 SW | SW15_SW_20241001 SW | SW28A_SW_20241001 SW |
|---------------------------------------|------------|------------|----------|------|------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Client sampling date / time           |            |            |          |      |                  | 01-Oct-2024 10:25   | 01-Oct-2024 11:10   | 01-Oct-2024 11:15   | 01-Oct-2024 11:40   | 01-Oct-2024 11:45    |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2411187-001       | TY2411187-002       | TY2411187-003       | TY2411187-004       | TY2411187-005        |
|                                       |            |            |          |      |                  | Result              | Result              | Result              | Result              | Result               |
| Dissolved Metals                      |            |            |          |      |                  |                     |                     |                     |                     |                      |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L |                  | <0.00010            | <0.00010            | <0.00010            | <0.00050 DLM        | <0.00050 DLM         |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L |                  | 0.00092             | 0.00059             | 0.00066             | 0.00688             | <0.00150 DLM         |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L |                  | <0.00010            | <0.00010            | <0.00010            | <0.00050 DLM        | <0.00050 DLM         |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L |                  | 0.000066            | 0.000173            | 0.000071            | 0.000407            | 0.000216             |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L |                  | <0.00050            | <0.00050            | <0.00050            | <0.00250 DLM        | <0.00250 DLM         |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L |                  | 0.0018              | 0.0016              | 0.0020              | <0.0050 DLM         | <0.0050 DLM          |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L |                  | <0.00030            | <0.00030            | <0.00030            | <0.00150 DLM        | <0.00150 DLM         |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    |                  | Field               | Field               | Field               | Field               | Field                |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    |                  | Field               | Field               | Field               | Field               | Field                |
| Aggregate Organics                    |            |            |          |      |                  |                     |                     |                     |                     |                      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L |                  | <2.0                | <2.0                | <2.0                | <2.0                | <2.0                 |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L |                  | 38                  | 85                  | 36                  | 121                 | 80                   |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L |                  | <1.0                | 1.1                 | <1.0                | <1.0                | <1.0                 |
| Radiological Parameters               |            |            |          |      |                  |                     |                     |                     |                     |                      |
| Radium-226                            | 13982-63-3 | Ra-226/2I  | 0.005    | Bq/L |                  | ----                | <0.005              | ----                | ----                | ----                 |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                             |            |              |        |          | Client sample ID | TB_SW_20241001<br>SW    | SW23_SW_202410<br>01<br>SW | SW24_SW_202410<br>01<br>SW | SW29A_SW_202410<br>01<br>SW | SW03_SW_202410<br>01<br>SW |
|---------------------------------------------|------------|--------------|--------|----------|------------------|-------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                 |            |              |        |          |                  | 01-Oct-2024 12:00       | 01-Oct-2024 12:25          | 01-Oct-2024 12:30          | 01-Oct-2024 13:05           | 01-Oct-2024 13:25          |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2411187-006           | TY2411187-007              | TY2411187-008              | TY2411187-009               | TY2411187-010              |
|                                             |            |              |        |          |                  | Result                  | Result                     | Result                     | Result                      | Result                     |
| Field Tests                                 |            |              |        |          |                  |                         |                            |                            |                             |                            |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     | ----             | 3.94                    | 5.21                       | 0.04                       | 4.06                        |                            |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units | ----             | 7.08                    | 7.12                       | 6.68                       | 7.16                        |                            |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       | ----             | 12.7                    | 13.4                       | 12.4                       | 12.9                        |                            |
| Physical Tests                              |            |              |        |          |                  |                         |                            |                            |                             |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     | <2.0             | 3.5                     | 2.8                        | 6.9                        | 2.8                         |                            |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       | <2.0             | 163                     | 170                        | 142                        | 107                         |                            |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    | 1.0              | 271                     | 284                        | 264                        | 316                         |                            |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     | <0.50            | 154                     | 156                        | 156                        | 172                         |                            |
| pH                                          | ----       | E108/TY      | 0.10   | pH units | 5.37             | 7.74                    | 7.80                       | 7.48                       | 7.86                        |                            |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     | <10              | 216                     | 235                        | 205                        | 235                         |                            |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     | <3.0             | 8.8                     | 7.6                        | 9.2                        | 6.6                         |                            |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      | <0.10            | 15.0                    | 15.3                       | 1.80                       | 4.53                        |                            |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     | <2.0             | 145                     | 150                        | 160                        | 166                         |                            |
| Anions and Nutrients                        |            |              |        |          |                  |                         |                            |                            |                             |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | <0.0050          | 0.0185 <sup>&lt;T</sup> | 0.0164 <sup>&lt;T</sup>    | 0.0126 <sup>&lt;T</sup>    | 0.0105 <sup>&lt;T</sup>     |                            |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | ----             | <0.0010                 | <0.0010                    | <0.0010                    | <0.0010                     |                            |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | <0.10            | 6.85                    | 6.99                       | 1.50                       | 11.8                        |                            |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020           | 0.045                   | 0.045                      | 0.043                      | 0.045                       |                            |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     | <0.050           | 1.19                    | 1.29                       | 1.61                       | 1.37                        |                            |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020           | <0.020                  | <0.020                     | <0.020                     | <0.020                      |                            |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010           | <0.010                  | <0.010                     | <0.010                     | <0.010                      |                            |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |             |           |      | Client sample ID | TB_SW_20241001<br>SW | SW23_SW_202410<br>01<br>SW | SW24_SW_202410<br>01<br>SW | SW29A_SW_202410<br>01<br>SW | SW03_SW_202410<br>01<br>SW |
|------------------------------------------|------------|-------------|-----------|------|------------------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time              |            |             |           |      |                  | 01-Oct-2024 12:00    | 01-Oct-2024 12:25          | 01-Oct-2024 12:30          | 01-Oct-2024 13:05           | 01-Oct-2024 13:25          |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit |                  | TY2411187-006        | TY2411187-007              | TY2411187-008              | TY2411187-009               | TY2411187-010              |
|                                          |            |             |           |      |                  | Result               | Result                     | Result                     | Result                      | Result                     |
| Anions and Nutrients                     |            |             |           |      |                  |                      |                            |                            |                             |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L |                  | <0.0010              | 0.0310                     | 0.0324                     | 0.0055                      | 0.0254                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L |                  | <0.30                | 1.68                       | 1.79                       | <0.30                       | 3.02                       |
| Cyanides                                 |            |             |           |      |                  |                      |                            |                            |                             |                            |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L |                  | <0.0020              | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L |                  | <0.0020              | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L |                  | <0.0020              | <0.0020                    | <0.0020                    | <0.0020                     | <0.0020                    |
| Organic / Inorganic Carbon               |            |             |           |      |                  |                      |                            |                            |                             |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L |                  | <0.50                | 36.9                       | 35.6                       | 33.3                        | 32.6                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L |                  | <0.50                | 37.1                       | 39.0                       | 40.2                        | 33.4                       |
| Total Metals                             |            |             |           |      |                  |                      |                            |                            |                             |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L |                  | <0.0030              | 0.635                      | 0.526                      | 0.0090 <T                   | 0.232                      |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L |                  | <0.00010             | <0.00020 DLM               | <0.00020 DLM               | <0.00010                    | 0.00010                    |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L |                  | <0.00010             | 0.00223 <T                 | 0.00227 <T                 | 0.00215 <T                  | 0.00172 <T                 |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L |                  | <0.00010             | 0.0220                     | 0.0205                     | 0.0281                      | 0.0220                     |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L |                  | <0.000020            | <0.000040 DLM              | <0.000040 DLM              | <0.000020                   | 0.000021 <T                |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L |                  | <0.000050            | <0.000100 DLM              | <0.000100 DLM              | <0.000050                   | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L |                  | <0.010               | <0.020 DLM                 | <0.020 DLM                 | 0.016 <T                    | 0.017 <T                   |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L |                  | <0.0000050           | 0.0000181 <T               | 0.0000182 <T               | 0.0000131 <T                | 0.0000121 <T               |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L |                  | <0.050               | 36.9                       | 38.0                       | 38.7                        | 44.0                       |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L |                  | <0.000010            | 0.000081                   | 0.000071                   | 0.000011                    | 0.000029                   |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L |                  | <0.00050             | 0.00135 <T                 | 0.00112 <T                 | <0.00050                    | 0.00058 <T                 |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | TB_SW_20241001<br>SW | SW23_SW_202410<br>01<br>SW | SW24_SW_202410<br>01<br>SW | SW29A_SW_202410<br>01<br>SW | SW03_SW_202410<br>01<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 01-Oct-2024 12:00    | 01-Oct-2024 12:25          | 01-Oct-2024 12:30          | 01-Oct-2024 13:05           | 01-Oct-2024 13:25          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2411187-006        | TY2411187-007              | TY2411187-008              | TY2411187-009               | TY2411187-010              |
|                             |            |            |           |      |                  | Result               | Result                     | Result                     | Result                      | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                      |                            |                            |                             |                            |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.00064 <T                 | 0.00053 <T                 | 0.00143 <T                  | 0.00037 <T                 |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00190 <T                 | 0.00196 <T                 | <0.00050                    | 0.00161 <T                 |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | <0.010               | 1.39                       | 1.32                       | 0.860                       | 0.518                      |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000510 <T                | 0.000419 <T                | <0.000050                   | 0.000158 <T                |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | <0.0010              | 0.0051 <T                  | 0.0053 <T                  | 0.0038 <T                   | 0.0055 <T                  |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | <0.0050              | 15.3                       | 15.6                       | 15.1                        | 15.5                       |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.209                      | 0.182                      | 1.09                        | 0.102                      |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000371 <T                | 0.000340 <T                | 0.000289 <T                 | 0.000402 <T                |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00275 <T                 | 0.00252 <T                 | 0.00108 <T                  | 0.00250 <T                 |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050               | <0.100 DLM                 | <0.100 DLM                 | 0.108                       | 0.082                      |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | <0.050               | 2.08                       | 2.02                       | 1.75                        | 2.78                       |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00357                    | 0.00316                    | 0.00471                     | 0.00330                    |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000238 <T                | 0.000215 <T                | 0.000180 <T                 | 0.000175 <T                |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | <0.10                | 6.02                       | 5.66                       | 6.75                        | 5.93                       |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000020 DLM              | <0.000020 DLM              | <0.000010                   | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | <0.050               | 4.71                       | 4.74                       | 1.56                        | 6.36                       |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.0816                     | 0.0870                     | 0.0796                      | 0.0937                     |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | <0.50                | <1.00 DLM                  | <1.00 DLM                  | <0.50                       | 1.50                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | <0.00040 DLM               | <0.00040 DLM               | <0.00020                    | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000020 DLM              | <0.000020 DLM              | <0.000010                   | <0.000010                  |





## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | TB_SW_20241001<br>SW | SW23_SW_202410<br>01<br>SW | SW24_SW_202410<br>01<br>SW | SW29A_SW_202410<br>01<br>SW | SW03_SW_202410<br>01<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 01-Oct-2024 12:00    | 01-Oct-2024 12:25          | 01-Oct-2024 12:30          | 01-Oct-2024 13:05           | 01-Oct-2024 13:25          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2411187-006        | TY2411187-007              | TY2411187-008              | TY2411187-009               | TY2411187-010              |
|                             |            |            |           |      |                  | Result               | Result                     | Result                     | Result                      | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                      |                            |                            |                             |                            |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00020 DLM               | <0.00020 DLM               | <0.00010                    | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00020 DLM               | <0.00020 DLM               | <0.00010                    | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | <0.00030             | 0.0219                     | 0.0160                     | <0.00030                    | 0.00820                    |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00020 DLM               | <0.00020 DLM               | <0.00010                    | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | 0.000389 <T                | 0.000379 <T                | 0.000039 <T                 | 0.000449 <T                |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00261                    | 0.00228                    | <0.00050                    | 0.00144                    |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | <0.0030              | <0.0060 DLM                | <0.0060 DLM                | 0.0066 <T                   | <0.0030                    |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00079                    | 0.00102                    | <0.00020                    | 0.00047                    |
| <b>Dissolved Metals</b>     |            |            |           |      |                  |                      |                            |                            |                             |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | <0.0010              | 0.0333                     | 0.0539                     | 0.0052                      | 0.0222                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00050 DLM               | <0.00010                   | <0.00010                    | <0.00010                   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.00199                    | 0.00188                    | 0.00223                     | 0.00163                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.0172                     | 0.0148                     | 0.0269                      | 0.0193                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020            | <0.000100 DLM              | <0.000020                  | <0.000020                   | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | <0.000250 DLM              | <0.000050                  | <0.000050                   | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | <0.010               | <0.050 DLM                 | 0.014                      | 0.014                       | 0.015                      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | <0.0000050           | <0.0000250 DLM             | 0.0000059                  | 0.0000118                   | 0.0000079                  |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | <0.050               | 37.4                       | 37.8                       | 38.8                        | 43.8                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000050 DLM              | <0.000010                  | <0.000010                   | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050             | <0.00250 DLM               | <0.00050                   | <0.00050                    | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00050 DLM               | 0.00013                    | 0.00159                     | <0.00010                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID            |            |            |           |      | TB_SW_20241001<br>SW | SW23_SW_202410<br>01<br>SW | SW24_SW_202410<br>01<br>SW | SW29A_SW_202410<br>01<br>SW | SW03_SW_202410<br>01<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 01-Oct-2024 12:00    | 01-Oct-2024 12:25          | 01-Oct-2024 12:30          | 01-Oct-2024 13:05           | 01-Oct-2024 13:25          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2411187-006        | TY2411187-007              | TY2411187-008              | TY2411187-009               | TY2411187-010              |
|                             |            |            |           |      | Result               | Result                     | Result                     | Result                      | Result                     |
| Dissolved Metals            |            |            |           |      |                      |                            |                            |                             |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | <0.00020             | 0.00165                    | 0.00150                    | 0.00029                     | 0.00147                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | <0.010               | 0.510                      | 0.425                      | 0.612                       | 0.121                      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | <0.000050            | <0.000250 DLM              | 0.000102                   | <0.000050                   | <0.000050                  |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L | <0.0010              | <0.0050 DLM                | 0.0050                     | 0.0034                      | 0.0055                     |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L | <0.0050              | 14.6                       | 15.1                       | 14.4                        | 15.2                       |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L | <0.00010             | 0.195                      | 0.00708                    | 1.42                        | 0.00166                    |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050           | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                 |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L | <0.000050            | 0.000253                   | 0.000319                   | 0.000280                    | 0.000391                   |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L | <0.00050             | <0.00250 DLM               | 0.00195                    | 0.00103                     | 0.00219                    |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050               | <0.250 DLM                 | <0.050                     | <0.050                      | <0.050                     |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L | <0.050               | 1.96                       | 1.98                       | 1.60                        | 2.78                       |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L | <0.00020             | 0.00196                    | 0.00197                    | 0.00384                     | 0.00270                    |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L | <0.000050            | <0.000250 DLM              | 0.000227                   | 0.000164                    | 0.000199                   |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L | <0.050               | 5.15                       | 4.95                       | 6.92                        | 5.78                       |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000050 DLM              | <0.000010                  | <0.000010                   | <0.000010                  |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L | <0.050               | 4.56                       | 4.68                       | 1.59                        | 6.34                       |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L | <0.00020             | 0.0713                     | 0.0797                     | 0.0768                      | 0.0912                     |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L | <0.50                | <2.50 DLM                  | 1.06                       | <0.50                       | 1.57                       |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L | <0.00020             | <0.00100 DLM               | <0.00020                   | <0.00020                    | <0.00020                   |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L | <0.000010            | <0.000050 DLM              | <0.000010                  | <0.000010                   | <0.000010                  |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L | <0.00010             | <0.00050 DLM               | <0.00010                   | <0.00010                    | <0.00010                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |            |          |      | Client sample ID | TB_SW_20241001<br>SW | SW23_SW_202410<br>01<br>SW | SW24_SW_202410<br>01<br>SW | SW29A_SW_202410<br>01<br>SW | SW03_SW_202410<br>01<br>SW |
|---------------------------------------|------------|------------|----------|------|------------------|----------------------|----------------------------|----------------------------|-----------------------------|----------------------------|
| Client sampling date / time           |            |            |          |      |                  | 01-Oct-2024 12:00    | 01-Oct-2024 12:25          | 01-Oct-2024 12:30          | 01-Oct-2024 13:05           | 01-Oct-2024 13:25          |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2411187-006        | TY2411187-007              | TY2411187-008              | TY2411187-009               | TY2411187-010              |
|                                       |            |            |          |      |                  | Result               | Result                     | Result                     | Result                      | Result                     |
| <b>Dissolved Metals</b>               |            |            |          |      |                  |                      |                            |                            |                             |                            |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L |                  | <0.00010             | <0.00050 <sup>DLM</sup>    | <0.00010                   | <0.00010                    | <0.00010                   |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L |                  | <0.00030             | 0.00404                    | 0.00617                    | <0.00030                    | 0.00113                    |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L |                  | <0.00010             | <0.00050 <sup>DLM</sup>    | <0.00010                   | <0.00010                    | <0.00010                   |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L |                  | <0.000010            | 0.000317                   | 0.000366                   | 0.000042                    | 0.000431                   |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L |                  | <0.00050             | <0.00250 <sup>DLM</sup>    | 0.00093                    | <0.00050                    | 0.00077                    |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L |                  | <0.0010              | <0.0050 <sup>DLM</sup>     | <0.0010                    | 0.0064                      | <0.0010                    |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L |                  | <0.00030             | <0.00150 <sup>DLM</sup>    | 0.00065                    | <0.00030                    | 0.00031                    |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    |                  | N/A                  | Field                      | Laboratory                 | Field                       | Laboratory                 |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    |                  | Field                | Field                      | Laboratory                 | Field                       | Laboratory                 |
| <b>Aggregate Organics</b>             |            |            |          |      |                  |                      |                            |                            |                             |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L |                  | <2.0                 | <2.0                       | <2.0                       | 4.5                         | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L |                  | <10                  | 95                         | 93                         | 107                         | 83                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L |                  | <1.0                 | <1.0                       | <1.0                       | 2.7                         | 1.7                        |
| <b>Radiological Parameters</b>        |            |            |          |      |                  |                      |                            |                            |                             |                            |
| Radium-226                            | 13982-63-3 | Ra-226/2I  | 0.005    | Bq/L |                  | ----                 | 0.006                      | <0.005                     | ----                        | ----                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID                            |            |              |        |          | SW22A_SW_2024<br>1001<br>SW | SW10_SW_202410<br>01<br>SW | ---- | ---- | ---- |
|---------------------------------------------|------------|--------------|--------|----------|-----------------------------|----------------------------|------|------|------|
| Client sampling date / time                 |            |              |        |          | 01-Oct-2024 15:00           | 01-Oct-2024 16:25          | ---- | ---- | ---- |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     | TY2411187-011               | TY2411187-012              | ---- | ---- | ---- |
|                                             |            |              |        |          | Result                      | Result                     | ---- | ---- | ---- |
| Field Tests                                 |            |              |        |          |                             |                            |      |      |      |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     | 0.71                        | 6.05                       | ---- | ---- | ---- |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units | 6.89                        | 7.75                       | ---- | ---- | ---- |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       | 12.9                        | 13.3                       | ---- | ---- | ---- |
| Physical Tests                              |            |              |        |          |                             |                            |      |      |      |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     | 2.5                         | 2.3                        | ---- | ---- | ---- |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       | 87.3                        | 194                        | ---- | ---- | ---- |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    | 315                         | 266                        | ---- | ---- | ---- |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     | 169                         | 136                        | ---- | ---- | ---- |
| pH                                          | ----       | E108/TY      | 0.10   | pH units | 7.89                        | 7.91                       | ---- | ---- | ---- |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     | 242                         | 204                        | ---- | ---- | ---- |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     | 3.0                         | <3.0                       | ---- | ---- | ---- |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      | 2.68                        | 3.71                       | ---- | ---- | ---- |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     | 162                         | 124                        | ---- | ---- | ---- |
| Anions and Nutrients                        |            |              |        |          |                             |                            |      |      |      |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0421 <sup>&lt;T</sup>     | 0.0202 <sup>&lt;T</sup>    | ---- | ---- | ---- |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                     | <0.0010                    | ---- | ---- | ---- |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 14.9                        | 14.2                       | ---- | ---- | ---- |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.059                       | 0.047                      | ---- | ---- | ---- |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     | 1.31                        | 1.24                       | ---- | ---- | ---- |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                      | <0.020                     | ---- | ---- | ---- |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                      | <0.010                     | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |             |           |      | Client sample ID         | SW22A_SW_2024<br>1001<br>SW | SW10_SW_202410<br>01<br>SW | ---- | ---- | ---- |
|----------------------------------------------|------------|-------------|-----------|------|--------------------------|-----------------------------|----------------------------|------|------|------|
| Client sampling date / time                  |            |             |           |      | 01-Oct-2024 15:00        | 01-Oct-2024 16:25           | ----                       | ---- | ---- |      |
| Analyte                                      | CAS Number | Method/Lab  | LOR       | Unit | TY2411187-011            | TY2411187-012               | ----                       | ---- | ---- |      |
|                                              |            |             |           |      | Result                   | Result                      | ----                       | ---- | ---- |      |
| Anions and Nutrients                         |            |             |           |      |                          |                             |                            |      |      |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L | 0.0585                   | 0.0386                      | ----                       | ---- | ---- |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | 1.21                     | 1.71                        | ----                       | ---- | ---- |      |
| Cyanides                                     |            |             |           |      |                          |                             |                            |      |      |      |
| Cyanide, free                                | ----       | E339/WT     | 0.0020    | mg/L | <0.0020                  | <0.0020                     | ----                       | ---- | ---- |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT     | 0.0020    | mg/L | <0.0020                  | <0.0020                     | ----                       | ---- | ---- |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT     | 0.0020    | mg/L | <0.0020                  | <0.0020                     | ----                       | ---- | ---- |      |
| Organic / Inorganic Carbon                   |            |             |           |      |                          |                             |                            |      |      |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT   | 0.50      | mg/L | 28.3                     | 39.7                        | ----                       | ---- | ---- |      |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT   | 0.50      | mg/L | 29.7                     | 38.0                        | ----                       | ---- | ---- |      |
| Total Metals                                 |            |             |           |      |                          |                             |                            |      |      |      |
| Aluminum, total                              | 7429-90-5  | E420/TY     | 0.0030    | mg/L | 0.0930                   | 0.147                       | ----                       | ---- | ---- |      |
| Antimony, total                              | 7440-36-0  | E420/TY     | 0.00010   | mg/L | <0.00010                 | <0.00020 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Arsenic, total                               | 7440-38-2  | E420/TY     | 0.00010   | mg/L | 0.00156 <sup>&lt;T</sup> | 0.00169 <sup>&lt;T</sup>    | ----                       | ---- | ---- |      |
| Barium, total                                | 7440-39-3  | E420/TY     | 0.00010   | mg/L | 0.0146                   | 0.0160                      | ----                       | ---- | ---- |      |
| Beryllium, total                             | 7440-41-7  | E420/TY     | 0.000020  | mg/L | <0.000020                | <0.000040 <sup>DLM</sup>    | ----                       | ---- | ---- |      |
| Bismuth, total                               | 7440-69-9  | E420/TY     | 0.000050  | mg/L | <0.000050                | <0.000100 <sup>DLM</sup>    | ----                       | ---- | ---- |      |
| Boron, total                                 | 7440-42-8  | E420/TY     | 0.010     | mg/L | 0.017 <sup>&lt;T</sup>   | <0.020 <sup>DLM</sup>       | ----                       | ---- | ---- |      |
| Cadmium, total                               | 7440-43-9  | E420/TY     | 0.0000050 | mg/L | 0.0000050                | <0.0000100 <sup>DLM</sup>   | ----                       | ---- | ---- |      |
| Calcium, total                               | 7440-70-2  | E420/TY     | 0.050     | mg/L | 39.7                     | 33.7                        | ----                       | ---- | ---- |      |
| Cesium, total                                | 7440-46-2  | E420/TY     | 0.000010  | mg/L | 0.000011                 | <0.000020 <sup>DLM</sup>    | ----                       | ---- | ---- |      |
| Chromium, total                              | 7440-47-3  | E420/TY     | 0.00050   | mg/L | <0.00050                 | <0.00100 <sup>DLM</sup>     | ----                       | ---- | ---- |      |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW22A_SW_2024<br>1001<br>SW | SW10_SW_202410<br>01<br>SW | ---- | ---- | ---- |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|------|------|------|
| Client sampling date / time                  |            |            |           |      | 01-Oct-2024 15:00         | 01-Oct-2024 16:25           | ----                       | ---- | ---- |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2411187-011             | TY2411187-012               | ----                       | ---- | ---- |      |
|                                              |            |            |           |      | Result                    | Result                      | ----                       | ---- | ---- |      |
| Total Metals                                 |            |            |           |      |                           |                             |                            |      |      |      |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00033 <sup>&lt;T</sup>  | 0.00024 <sup>&lt;T</sup>    | ----                       | ---- | ---- |      |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | <0.00050                  | <0.00100 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.410                     | 0.695                       | ----                       | ---- | ---- |      |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000060 <sup>&lt;T</sup> | 0.000110 <sup>&lt;T</sup>   | ----                       | ---- | ---- |      |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0057 <sup>&lt;T</sup>   | 0.0057 <sup>&lt;T</sup>     | ----                       | ---- | ---- |      |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 16.2                      | 14.7                        | ----                       | ---- | ---- |      |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.324                     | 0.0389                      | ----                       | ---- | ---- |      |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                | <0.0000050                  | ----                       | ---- | ---- |      |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000327 <sup>&lt;T</sup> | 0.000368 <sup>&lt;T</sup>   | ----                       | ---- | ---- |      |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00157 <sup>&lt;T</sup>  | 0.00172 <sup>&lt;T</sup>    | ----                       | ---- | ---- |      |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | 0.098                     | <0.100 <sup>DLM</sup>       | ----                       | ---- | ---- |      |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 2.86                      | 1.76                        | ----                       | ---- | ---- |      |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00313                   | 0.00198                     | ----                       | ---- | ---- |      |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000154 <sup>&lt;T</sup> | 0.000154 <sup>&lt;T</sup>   | ----                       | ---- | ---- |      |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 5.98                      | 5.49                        | ----                       | ---- | ---- |      |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000020 <sup>DLM</sup>    | ----                       | ---- | ---- |      |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 7.15                      | 8.54                        | ----                       | ---- | ---- |      |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0922                    | 0.0892                      | ----                       | ---- | ---- |      |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 0.98                      | 1.02                        | ----                       | ---- | ---- |      |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00040 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000020 <sup>DLM</sup>    | ----                       | ---- | ---- |      |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW22A_SW_2024<br>1001<br>SW | SW10_SW_202410<br>01<br>SW | ---- | ---- | ---- |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|-----------------------------|----------------------------|------|------|------|
| Client sampling date / time                  |            |            |           |      | 01-Oct-2024 15:00         | 01-Oct-2024 16:25           | ----                       | ---- | ---- |      |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2411187-011             | TY2411187-012               | ----                       | ---- | ---- |      |
|                                              |            |            |           |      | Result                    | Result                      | ----                       | ---- | ---- |      |
| Total Metals                                 |            |            |           |      |                           |                             |                            |      |      |      |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00020 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00020 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00304                   | 0.00498                     | ----                       | ---- | ---- |      |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00020 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000292 <sup>&lt;T</sup> | 0.000373 <sup>&lt;T</sup>   | ----                       | ---- | ---- |      |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00064                   | 0.00119                     | ----                       | ---- | ---- |      |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | <0.0060 <sup>DLM</sup>      | ----                       | ---- | ---- |      |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | 0.00021                   | 0.00046                     | ----                       | ---- | ---- |      |
| Dissolved Metals                             |            |            |           |      |                           |                             |                            |      |      |      |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0036                    | 0.0207                      | ----                       | ---- | ---- |      |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00050 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00147                   | 0.00148                     | ----                       | ---- | ---- |      |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.0118                    | 0.0146                      | ----                       | ---- | ---- |      |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000100 <sup>DLM</sup>    | ----                       | ---- | ---- |      |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000250 <sup>DLM</sup>    | ----                       | ---- | ---- |      |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | 0.015                     | <0.050 <sup>DLM</sup>       | ----                       | ---- | ---- |      |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | <0.0000050                | <0.0000250 <sup>DLM</sup>   | ----                       | ---- | ---- |      |
| Calcium, dissolved                           | 7440-70-2  | E421/TY    | 0.050     | mg/L | 40.8                      | 32.9                        | ----                       | ---- | ---- |      |
| Cesium, dissolved                            | 7440-46-2  | E421/TY    | 0.000010  | mg/L | <0.000010                 | <0.000050 <sup>DLM</sup>    | ----                       | ---- | ---- |      |
| Chromium, dissolved                          | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                  | <0.00250 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Cobalt, dissolved                            | 7440-48-4  | E421/TY    | 0.00010   | mg/L | 0.00016                   | <0.00050 <sup>DLM</sup>     | ----                       | ---- | ---- |      |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW22A_SW_2024<br>1001<br>SW | SW10_SW_202410<br>01<br>SW | ---- | ---- | ---- |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|------|------|------|
| Client sampling date / time |            |            |           |      |                  | 01-Oct-2024 15:00           | 01-Oct-2024 16:25          | ---- | ---- | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2411187-011               | TY2411187-012              | ---- | ---- | ---- |
|                             |            |            |           |      |                  | Result                      | Result                     | ---- | ---- | ---- |
| Dissolved Metals            |            |            |           |      |                  |                             |                            |      |      |      |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00053                     | 0.00115                    | ---- | ---- | ---- |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | 0.102                       | 0.489                      | ---- | ---- | ---- |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                   | <0.000250 DLM              | ---- | ---- | ---- |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | 0.0055                      | <0.0050 DLM                | ---- | ---- | ---- |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | 16.3                        | 13.1                       | ---- | ---- | ---- |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | 0.0315                      | 0.0342                     | ---- | ---- | ---- |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | ---- | ---- | ---- |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | 0.000280                    | 0.000262                   | ---- | ---- | ---- |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | 0.00150                     | <0.00250 DLM               | ---- | ---- | ---- |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | 0.060                       | <0.250 DLM                 | ---- | ---- | ---- |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | 2.85                        | 1.66                       | ---- | ---- | ---- |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | 0.00276                     | 0.00158                    | ---- | ---- | ---- |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | 0.000206                    | <0.000250 DLM              | ---- | ---- | ---- |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 6.10                        | 5.13                       | ---- | ---- | ---- |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000050 DLM              | ---- | ---- | ---- |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 7.52                        | 8.09                       | ---- | ---- | ---- |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | 0.0923                      | 0.0875                     | ---- | ---- | ---- |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | 0.82                        | <2.50 DLM                  | ---- | ---- | ---- |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020                    | <0.00100 DLM               | ---- | ---- | ---- |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000050 DLM              | ---- | ---- | ---- |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00050 DLM               | ---- | ---- | ---- |





## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID  | SW22A_SW_2024<br>1001<br>SW | SW10_SW_202410<br>01<br>SW | ---- | ---- | ---- |
|----------------------------------------------|------------|------------|----------|------|-------------------|-----------------------------|----------------------------|------|------|------|
| Client sampling date / time                  |            |            |          |      | 01-Oct-2024 15:00 | 01-Oct-2024 16:25           | ----                       | ---- | ---- |      |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2411187-011     | TY2411187-012               | ----                       | ---- | ---- |      |
|                                              |            |            |          |      | Result            | Result                      | ----                       | ---- | ---- |      |
| Dissolved Metals                             |            |            |          |      |                   |                             |                            |      |      |      |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010  | mg/L | <0.00010          | <0.00050 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030  | mg/L | 0.00034           | <0.00150 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010  | mg/L | <0.00010          | <0.00050 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010 | mg/L | 0.000282          | 0.000334                    | ----                       | ---- | ---- |      |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050  | mg/L | <0.00050          | <0.00250 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010   | mg/L | <0.0010           | <0.0050 <sup>DLM</sup>      | ----                       | ---- | ---- |      |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030  | mg/L | <0.00030          | <0.00150 <sup>DLM</sup>     | ----                       | ---- | ---- |      |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -        | -    | Laboratory        | Field                       | ----                       | ---- | ---- |      |
| Dissolved metals filtration location         | ----       | EP421/TY   | -        | -    | Laboratory        | Field                       | ----                       | ---- | ---- |      |
| Aggregate Organics                           |            |            |          |      |                   |                             |                            |      |      |      |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0      | mg/L | <2.0              | <2.0                        | ----                       | ---- | ---- |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10       | mg/L | 79                | 99                          | ----                       | ---- | ---- |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0      | mg/L | <1.0              | <1.0                        | ----                       | ---- | ---- |      |
| Radiological Parameters                      |            |            |          |      |                   |                             |                            |      |      |      |
| Radium-226                                   | 13982-63-3 | Ra-226/2I  | 0.005    | Bq/L | <0.005            | ----                        | ----                       | ---- | ---- |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

## ***Test Report***

SRC Group # 2024-13085

Nov 01, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Oct-11-2024

Client P.O.: TY2411187

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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 Snook, Vicky

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

SRC Group # 2024-13085

Nov 01, 2024

ALS, Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Sample #: **2024037338**  
Date Sampled: **Oct 01, 2024**  
Sample Matrix: **WATER**  
Description: **10/01/2024 10:10 SW20\_SW\_20241001 TY2411187-002**

Client PO #: **TY2411187**  
Date Received: **Oct 11, 2024**

| 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 13.2 °C upon receipt.

**SRC Group # 2024-13085**

Nov 01, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024037339** Client PO #: **TY2411187**  
Date Sampled: **Oct 01, 2024** Date Received: **Oct 11, 2024**  
Sample Matrix: **WATER**  
Description: **10/01/2024 11:25 SW23\_SW\_20241001 TY2411187-007**

| Analyte                                                 | Units | Result | DL    |
|---------------------------------------------------------|-------|--------|-------|
| <b>Lab Section 4</b>                                    |       |        |       |
| Radium-226*                                             | Bq/L  | 0.006  | 0.005 |
| The temperature of the cooler was 13.2 °C upon receipt. |       |        |       |

SRC Group # 2024-13085

Nov 01, 2024

ALS, Thunder Bay Analytical

|                |                                                        |                |                     |
|----------------|--------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024037340</b>                                      | Client PO #:   | <b>TY2411187</b>    |
| Date Sampled:  | <b>Oct 01, 2024</b>                                    | Date Received: | <b>Oct 11, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                           |                |                     |
| Description:   | <b>10/01/2024 11:30 SW24_SW_20241001 TY2411187-008</b> |                |                     |

| 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 13.2 °C upon receipt.

SRC Group # 2024-13085

Nov 01, 2024

ALS, Thunder Bay Analytical

|                |                                                         |                |                     |
|----------------|---------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024037341</b>                                       | Client PO #:   | <b>TY2411187</b>    |
| Date Sampled:  | <b>Oct 01, 2024</b>                                     | Date Received: | <b>Oct 11, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                            |                |                     |
| Description:   | <b>10/01/2024 14:00 SW22A_SW_20241001 TY2411187-011</b> |                |                     |

| 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 13.2 °C upon receipt.

SRC Group # 2024-13085

Nov 01, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |

Project Name: Rainy River

Location: Chapple

Project Number:

Project Manager:

PO Number:

Project:

Turn Around Time (days): 10 Business Days

Shipping Company:

Shipping Date: 10/2/2024 9:00:00 AM

COC Number: ALS-455673750

TY2411187

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2411187**


Telephone : +1 807 623 6483

| 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 |
|-------------------|-------------------------------|---------------------|-----------------|------------------|--------|------------|---------------|--|--|--|--|--|--|--|--|--|--|----------------------|----------|
| SW16_SW_20241001  | 8.21                          | 7.22                | 16.2            | 10/01/2024 10:25 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |
| SW20_SW_20241001  | 0.08                          | 7.1                 | 11.93           | 10/01/2024 11:10 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 12                   |          |
| SW20_SW_20241001  | 0.08                          | 7.1                 | 11.93           | 10/01/2024 11:10 | SW     |            | X             |  |  |  |  |  |  |  |  |  |  | 12                   |          |
| SW17_SW_20241001  | 8.02                          | 7.39                | 17              | 10/01/2024 11:15 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |
| SW15_SW_20241001  | 5.54                          | 7.25                | 14.2            | 10/01/2024 11:40 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |
| SW28A_SW_20241001 | 6.77                          | 7.44                | 11.99           | 10/01/2024 11:45 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |

| Signature                    | Date/Time                  | Shipping Details                                               | ATTN | Special Instructions:                                                                                          |
|------------------------------|----------------------------|----------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|
| Shipped by                   | 10/2/2024 9:00:00 AM       | Method of Shipment: Courier<br>On Ice: yes / no                |      |                                                                                                                |
| Received by AC 3 Oct 24 9:10 | 10.2.14.2.15.1.8.1.7.9.8.8 | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |



|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |               |                     |                            |  |  |  |  |  |    |  |                      |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------------------------------------------------------|---------------|---------------------|----------------------------|--|--|--|--|--|----|--|----------------------|----------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 10/2/2024 9:00:00 AM<br><b>COC Number:</b> ALS-455673750 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><b>Preservatives</b> |               | SW Kit<br>N<br><br> | Ra-226 Bottle<br>N<br><br> |  |  |  |  |  |    |  | Number of Containers | Comments |
|                                                                                                                                                                                                                                                                                                                             | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB                                                           | RA226-MMER-BE |                     |                            |  |  |  |  |  |    |  |                      |          |
| 6                                                                                                                                                                                                                                                                                                                           | TB_SW_20241001                |                     |                 | 10/01/2024 12:00 | SW     | X                                                                    |               |                     |                            |  |  |  |  |  | 11 |  |                      |          |
| 7                                                                                                                                                                                                                                                                                                                           | SW23_SW_20241001              | 3.94                | 7.08            | 10/01/2024 12:25 | SW     | X                                                                    |               |                     |                            |  |  |  |  |  | 12 |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             | SW23_SW_20241001              | 3.94                | 7.08            | 10/01/2024 12:25 | SW     |                                                                      | X             |                     |                            |  |  |  |  |  | 12 |  |                      |          |
| 8                                                                                                                                                                                                                                                                                                                           | SW24_SW_20241001              | 5.21                | 7.12            | 10/01/2024 12:30 | SW     | X                                                                    |               |                     |                            |  |  |  |  |  | 12 |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             | SW24_SW_20241001              | 5.21                | 7.12            | 10/01/2024 12:30 | SW     |                                                                      | X             |                     |                            |  |  |  |  |  | 12 |  |                      |          |
| 9                                                                                                                                                                                                                                                                                                                           | SW29A_SW_20241001             | 0.04                | 6.68            | 10/01/2024 13:05 | SW     | X                                                                    |               |                     |                            |  |  |  |  |  | 11 |  |                      |          |

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

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 10/2/2024 9:00:00 AM<br><b>COC Number:</b> ALS-455673750 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><b>Preservatives</b> |               | 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 |        |               |  |  |  |  |  |    |  |                      |          |
| SW03_SW_20241001                                                                                                                                                                                                                                                                                                            | 4.06                          | 7.16                | 12.9            | 10/01/2024 13:25 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW22A_SW_20241001                                                                                                                                                                                                                                                                                                           | 0.71                          | 6.89                | 12.9            | 10/01/2024 15:00 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW22A_SW_20241001                                                                                                                                                                                                                                                                                                           | 0.71                          | 6.89                | 12.9            | 10/01/2024 15:00 | SW     |                                                                      | X             |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW10_SW_20241001                                                                                                                                                                                                                                                                                                            | 6.05                          | 7.75                | 13.26           | 10/01/2024 16:25 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |

|             |           |                      |                             | Sample Receipt Details (ALS use only) |                       |                                   |  |
|-------------|-----------|----------------------|-----------------------------|---------------------------------------|-----------------------|-----------------------------------|--|
| Shipped by  | Signature | Date/Time            | Shipping Details            | ATTN                                  | Special Instructions: |                                   |  |
|             |           | 10/2/2024 9:00:00 AM |                             |                                       |                       |                                   |  |
| Received by |           |                      | Method of Shipment: Courier |                                       |                       |                                   |  |
|             |           |                      | On Ice: yes / no            |                                       |                       |                                   |  |
|             |           |                      | Shipped: Air/Ground         |                                       |                       |                                   |  |
|             |           |                      | Lab Name: ALS Thunder Bay   |                                       |                       | Email Invoice to:                 |  |
|             |           |                      | Lab Phone:                  |                                       |                       | rainyriver.accounts1@newgold.com  |  |
|             |           |                      |                             |                                       |                       | Email Report to:                  |  |
|             |           |                      |                             |                                       |                       | rainyriver.labresults@newgold.com |  |

Project Name: Rainy River

Location: Chapple

Project Number:

Project Manager:

PO Number:

Project:

Turn Around Time (days): 10 Business Days

Shipping Company:

Shipping Date: 10/2/2024 9:00:00 AM

COC Number: ALS-455673750

TY2411187

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2411187**



Telephone : +1 807 623 6463

| 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 SW16_SW_20241001  | 8.21                          | 7.22                | 16.2            | 10/01/2024 10:25 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |
| 2 SW20_SW_20241001  | 0.08                          | 7.1                 | 11.93           | 10/01/2024 11:10 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 12                   |          |
| SW20_SW_20241001    | 0.08                          | 7.1                 | 11.93           | 10/01/2024 11:10 | SW     |            | X             |  |  |  |  |  |  |  |  |  |  | 12                   |          |
| 3 SW17_SW_20241001  | 8.02                          | 7.39                | 17              | 10/01/2024 11:15 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |
| 4 SW15_SW_20241001  | 5.54                          | 7.25                | 14.2            | 10/01/2024 11:40 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |
| 5 SW28A_SW_20241001 | 6.77                          | 7.44                | 11.99           | 10/01/2024 11:45 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  | 11                   |          |

| Signature                  | Date/Time            | Shipping Details                                               | ATTN | Special Instructions:                                                                                    |
|----------------------------|----------------------|----------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------|
| Shipped by                 | 10/2/2024 9:00:00 AM | Method of Shipment: Courier<br>On Ice: yes / no                |      |                                                                                                          |
| Received by AC 304-24 9:10 |                      | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      | Email Invoice to: rainyriver.accounts1@newgold.com<br>Email Report to: rainyriver.labresults@newgold.com |

10/2/24 11:21:29  
Mumtaz 3303388800

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 10/2/2024 9:00:00 AM<br><b>COC Number:</b> ALS-455673750 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><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 |        |               |  |  |  |  |  |    |  |                      |          |
| TB_SW_20241001                                                                                                                                                                                                                                                                                                              |                               |                     |                 | 10/01/2024 12:00 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW23_SW_20241001                                                                                                                                                                                                                                                                                                            | 3.94                          | 7.08                | 12.7            | 10/01/2024 12:25 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW23_SW_20241001                                                                                                                                                                                                                                                                                                            | 3.94                          | 7.08                | 12.7            | 10/01/2024 12:25 | SW     |                                                                      | X             |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW24_SW_20241001                                                                                                                                                                                                                                                                                                            | 5.21                          | 7.12                | 13.4            | 10/01/2024 12:30 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW24_SW_20241001                                                                                                                                                                                                                                                                                                            | 5.21                          | 7.12                | 13.4            | 10/01/2024 12:30 | SW     |                                                                      | X             |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW29A_SW_20241001                                                                                                                                                                                                                                                                                                           | 0.04                          | 6.68                | 12.4            | 10/01/2024 13:05 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |

| Signature   | Date/Time            | Shipping Details                                                                            | ATTN | Special Instructions:                                                                                                        |
|-------------|----------------------|---------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------|
| Shipped by  | 10/2/2024 9:00:00 AM | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no<br><b>Shipped:</b> Air/Ground |      | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |
| Received by |                      | <b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b>                                       |      |                                                                                                                              |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 10/2/2024 9:00:00 AM<br><b>COC Number:</b> ALS-455673750 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><b>Preservatives</b> |               | 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 |        |               |  |  |  |  |  |    |  |                      |          |
| SW03_SW_20241001                                                                                                                                                                                                                                                                                                            | 4.06                          | 7.16                | 12.9            | 10/01/2024 13:25 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW22A_SW_20241001                                                                                                                                                                                                                                                                                                           | 0.71                          | 6.89                | 12.9            | 10/01/2024 15:00 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW22A_SW_20241001                                                                                                                                                                                                                                                                                                           | 0.71                          | 6.89                | 12.9            | 10/01/2024 15:00 | SW     |                                                                      | X             |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW10_SW_20241001                                                                                                                                                                                                                                                                                                            | 6.05                          | 7.75                | 13.26           | 10/01/2024 16:25 | SW     | X                                                                    |               |        |               |  |  |  |  |  | 11 |  |                      |          |

|             |           |                      |                             | Sample Receipt Details (ALS use only) |                                                       |
|-------------|-----------|----------------------|-----------------------------|---------------------------------------|-------------------------------------------------------|
| Shipped by  | Signature | Date/Time            | Shipping Details            |                                       | ATTN                                                  |
|             |           | 10/2/2024 9:00:00 AM | Method of Shipment: Courier |                                       |                                                       |
|             |           |                      | On Ice: yes / no            |                                       |                                                       |
| Received by |           |                      | Shipped: Air/Ground         |                                       |                                                       |
|             |           |                      | Lab Name: ALS Thunder Bay   |                                       |                                                       |
|             |           |                      | Lab Phone:                  |                                       |                                                       |
|             |           |                      |                             |                                       | Special Instructions:                                 |
|             |           |                      |                             |                                       | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |           |                      |                             |                                       | Email Report to:<br>rainyriver.labresults@newgold.com |

Project Name: Rainy River  
 Location: Chapple  
 Project Number:  
 Project Manager:  
 PO Number:  
 Project:  
 Turn Around Time (days): 10 Business Days  
 Shipping Company:  
 Shipping Date: 10/2/2024 9:00:00 AM  
 COC Number: ALS-455673750

Containers

Filtered

Preservatives

SW Kit

Ra-226  
Bottle

N

N

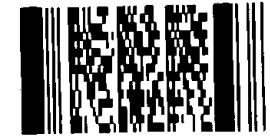
NG-SW-P-TB

RA226-MMER-BE

Environmental Division  
 Thunder Bay

Work Order Reference

**TY2411187**



Telephone : + 1 807 623 6463

Number of Containers

Comments

| Sample Code       | Field<br>Dissolved<br>Oxygen<br>(mg/L) | Field pH<br>(pH<br>Units) | Field<br>Temp<br>(°C) | Date and<br>Time    | Matrix | NG-SW-P-TB | RA226-MMER-BE |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|----------------------------------------|---------------------------|-----------------------|---------------------|--------|------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SW16_SW_20241001  | 8.21                                   | 7.22                      | 16.2                  | 10/01/2024<br>10:25 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SW20_SW_20241001  | 0.08                                   | 7.1                       | 11.93                 | 10/01/2024<br>11:10 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SW20_SW_20241001  | 0.08                                   | 7.1                       | 11.93                 | 10/01/2024<br>11:10 | SW     |            | X             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SW17_SW_20241001  | 8.02                                   | 7.39                      | 17                    | 10/01/2024<br>11:15 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SW15_SW_20241001  | 5.54                                   | 7.25                      | 14.2                  | 10/01/2024<br>11:40 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SW28A_SW_20241001 | 6.77                                   | 7.44                      | 11.99                 | 10/01/2024<br>11:45 | SW     | X          |               |  |  |  |  |  |  |  |  |  |  |  |  |  |

|             |                      |                             |      |                                                       |
|-------------|----------------------|-----------------------------|------|-------------------------------------------------------|
| Signature   | Date/Time            | Shipping Details            | ATTN | Special Instructions:                                 |
| Shipped by  | 10/2/2024 9:00:00 AM | Method of Shipment: Courier |      |                                                       |
|             |                      | On Ice: yes / no            |      |                                                       |
|             |                      | Shipped: Air/Ground         |      |                                                       |
| Received by | AC - 3 Oct - 24 9:10 | Lab Name: ALS Thunder Bay   |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |                      | Lab Phone:                  |      | Email Report to:<br>rainyriver.labresults@newgold.com |

10.0, 14.2, 15.1, 8.1, 7.9, 8.8  
 mamfarlin 3303388860

[illegible]

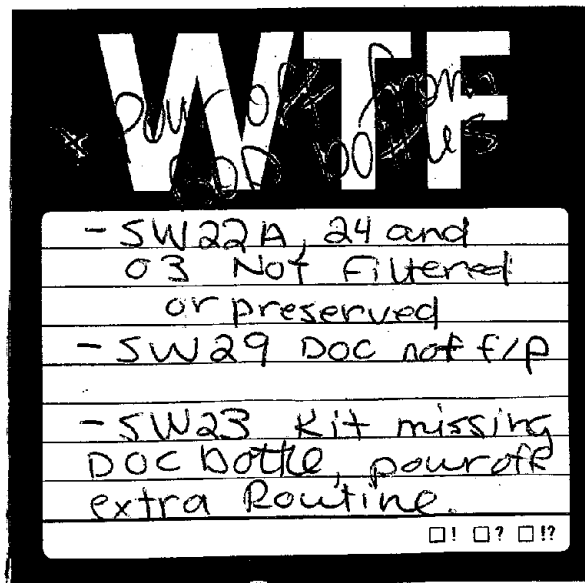
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 10/2/2024 9:00:00 AM<br><b>COC Number:</b> ALS-455673750 |                               |                     |                 |                  |        | Containers    |               | SW Kit     | Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|------------|---------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Filtered      |               | N          | N             |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Preservatives |               |            |               |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |               |               | NG-SW-P-TB | RA226-MMER-BE |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                 | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |            |               |  |  |  |  |  |    |  |                      |          |
| SW03_SW_20241001                                                                                                                                                                                                                                                                                                            | 4.06                          | 7.16                | 12.9            | 10/01/2024 13:25 | SW     | X             |               |            |               |  |  |  |  |  | 11 |  |                      |          |
| SW22A_SW_20241001                                                                                                                                                                                                                                                                                                           | 0.71                          | 6.89                | 12.9            | 10/01/2024 15:00 | SW     | X             |               |            |               |  |  |  |  |  | 12 |  |                      |          |
| SW22A_SW_20241001                                                                                                                                                                                                                                                                                                           | 0.71                          | 6.89                | 12.9            | 10/01/2024 15:00 | SW     |               | X             |            |               |  |  |  |  |  | 12 |  |                      |          |
| SW10_SW_20241001                                                                                                                                                                                                                                                                                                            | 6.05                          | 7.75                | 13.26           | 10/01/2024 16:25 | SW     | X             |               |            |               |  |  |  |  |  | 11 |  |                      |          |

|             |           | Sample Receipt Details (ALS use only) |                                                       |
|-------------|-----------|---------------------------------------|-------------------------------------------------------|
| Shipped by  | Signature | Date/Time                             | Shipping Details                                      |
|             |           | 10/2/2024 9:00:00 AM                  | Method of Shipment: Courier                           |
|             |           |                                       | On Ice: yes / no                                      |
|             |           |                                       | Shipped: Air/Ground                                   |
| Received by |           |                                       | Lab Name: ALS Thunder Bay                             |
|             |           |                                       | Lab Phone:                                            |
|             |           | ATTN                                  | Special Instructions:                                 |
|             |           |                                       | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |           |                                       | Email Report to:<br>rainyriver.labresults@newgold.com |



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

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



| Signature   | Date/Time            | Shipping Details            | ATTN | Special Instructions:                                 |
|-------------|----------------------|-----------------------------|------|-------------------------------------------------------|
| Shipped by  | 10/2/2024 9:00:00 AM | Method of Shipment: Courier |      |                                                       |
|             |                      | On Ice: yes / no            |      |                                                       |
|             |                      | Shipped: Air/Ground         |      |                                                       |
| Received by |                      | Lab Name: ALS Thunder Bay   |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |                      | Lab Phone:                  |      | Email Report to:<br>rainyriver.labresults@newgold.com |

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**CERTIFICATE OF ANALYSIS**

---

|                                |                                                      |                                |                                                       |
|--------------------------------|------------------------------------------------------|--------------------------------|-------------------------------------------------------|
| <b>Work Order</b>              | : <b>TY2411179</b>                                   |                                |                                                       |
| <b>Client</b>                  | : <b>New Gold Inc. (Rainy River)</b>                 | <b>Laboratory</b>              | : ALS Environmental - Thunder Bay                     |
| <b>Contact</b>                 | : Garnet.Cornell@newgold.com Garnet Cornell          | <b>Account Manager</b>         | : Christine Paradis                                   |
| <b>Address</b>                 | : 24 Marr Rd.<br>Barwick Ontario Canada P0W 1A0      | <b>Address</b>                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| <b>Telephone</b>               | : 807 234 8170                                       | <b>Telephone</b>               | : +1 807 623 6463                                     |
| <b>Project</b>                 | : Methyl Mercury                                     | <b>Date Samples Received</b>   | : 03-Oct-2024 09:10                                   |
| <b>PO</b>                      | : 4700003796                                         | <b>Date Analysis Commenced</b> | : 04-Oct-2024                                         |
| <b>C-O-C number</b>            | : ----                                               | <b>Issue Date</b>              | : 25-Oct-2024 13:10                                   |
| <b>Sampler</b>                 | : ----                                               |                                |                                                       |
| <b>Site</b>                    | : New Gold Inc. (Rainy River)                        |                                |                                                       |
| <b>Quote number</b>            | : New Gold Rainy River Project - Pick a Project 2024 |                                |                                                       |
| <b>No. of samples received</b> | : 6                                                  |                                |                                                       |
| <b>No. of samples analysed</b> | : 6                                                  |                                |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

---

**Signatories**

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>        | <i>Laboratory Department</i>      |
|--------------------|------------------------|-----------------------------------|
| Julie Ruoho        | Teamleader Wet Chem    | Inorganics, Thunder Bay, Ontario  |
| Raymond Lin        | Analyst                | Metals, Burnaby, British Columbia |
| Walt Kippenhuck    | Supervisor - Inorganic | Metals, Waterloo, Ontario         |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit | Description          |
|------|----------------------|
| mg/L | milligrams per litre |
| -    | no units             |
| µg/L | micrograms per litre |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Work Order : TY2411179  
Client : New Gold Inc. (Rainy River)  
Project : Methyl Mercury

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## Analytical Results

**Sub-Matrix:** Surface Water  
**(Matrix:** Water)

|                                              |            |                          |           |      | 1 - TEEPLE<br>CULVERT_MM_20<br>241001<br>SW | 2 -<br>SW20_MM_202410<br>01<br>SW | 3 -<br>SW10_MM_202410<br>01<br>SW | 4 -<br>SW22A_MM_202410<br>01<br>SW | 5 -<br>SW03_MM_202410<br>01<br>SW |
|----------------------------------------------|------------|--------------------------|-----------|------|---------------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|
| Client sample ID                             |            |                          |           |      |                                             |                                   |                                   |                                    |                                   |
| Client sampling date / time                  |            |                          |           |      | 01-Oct-2024 10:55                           | 01-Oct-2024 11:10                 | 01-Oct-2024 16:25                 | 01-Oct-2024 15:00                  | 01-Oct-2024 13:25                 |
| Analyte                                      | CAS Number | Method/Lab/Accreditation | LOR       | Unit | TY2411179-001                               | TY2411179-002                     | TY2411179-003                     | TY2411179-004                      | TY2411179-005                     |
|                                              |            |                          |           |      | Result                                      | Result                            | Result                            | Result                             | Result                            |
| <b>Anions and Nutrients</b>                  |            |                          |           |      |                                             |                                   |                                   |                                    |                                   |
| <b>Sulfate (as SO4)</b>                      | 14808-79-8 | E235.SO4/TY              | 0.30      | mg/L | 1.17                                        | ----                              | ----                              | ----                               | ----                              |
| <b>Total Metals</b>                          |            |                          |           |      |                                             |                                   |                                   |                                    |                                   |
| <b>Mercury, total</b>                        | 7439-97-6  | E508/WT                  | 0.0000050 | mg/L | <0.0000050                                  | ----                              | ----                              | ----                               | ----                              |
| <b>Dissolved Metals</b>                      |            |                          |           |      |                                             |                                   |                                   |                                    |                                   |
| <b>Mercury, dissolved</b>                    | 7439-97-6  | E509/WT                  | 0.0000050 | mg/L | <0.0000050                                  | ----                              | ----                              | ----                               | ----                              |
| <b>Dissolved mercury filtration location</b> | ----       | EP509/WT                 | -         | -    | Field                                       | ----                              | ----                              | ----                               | ----                              |
| <b>Speciated Metals</b>                      |            |                          |           |      |                                             |                                   |                                   |                                    |                                   |
| <b>Methylmercury (as MeHg), total</b>        | 22967-92-6 | E536/VA                  | 0.000020  | µg/L | 0.000513                                    | 0.000341                          | 0.000474                          | 0.000338                           | 0.000393                          |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## Analytical Results

**Sub-Matrix:** Surface Water  
**(Matrix:** Water)

|                                       |            |                          |          |      | 6 -<br>SW24_MM_20241<br>001<br>SW |      |      |      |      |
|---------------------------------------|------------|--------------------------|----------|------|-----------------------------------|------|------|------|------|
| Client sample ID                      |            |                          |          |      |                                   |      |      |      |      |
| Client sampling date / time           |            |                          |          |      | 01-Oct-2024 13:05                 | ---- | ---- | ---- | ---- |
| Analyte                               | CAS Number | Method/Lab/Accreditation | LOR      | Unit | TY2411179-006                     | ---- | ---- | ---- | ---- |
|                                       |            |                          |          |      | Result                            | ---- | ---- | ---- | ---- |
| <b>Speciated Metals</b>               |            |                          |          |      |                                   |      |      |      |      |
| <b>Methylmercury (as MeHg), total</b> | 22967-92-6 | E536/VA                  | 0.000020 | µg/L | 0.000331                          | ---- | ---- | ---- | ---- |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

T42411179

**COC Number:**

natives

MeHg Bottle

|       |
|-------|
| Merc  |
| uty   |
| total |
| and   |

2

Y

MEHG-T-GCAF-VA (Methyl

HC-TOT DIS-WT

Number of Containers

### Comments

|                                                                                   |                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <h2 style="text-align: center;">Drinking Water (DW) Samples<br/>(client use)</h2> |                                                                     |
| Are samples taken from a Regulated DW System?                                     | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Are samples for human consumption / use?                                          | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Samples from a Regulated DW System require an Authorized DW COC form              |                                                                     |

Shipped by

2024-10-02 9:00

Method of Shipment: Courier

On Ice: yes / no  
Shipped: Air/Ground

**ATTN**

Special Instructions:

Final Cooler Temperatures °C

**Sample Receipt Details (ALS use only)**Cooling Method: ☐ None ☐ Ice ☐ Ice Packs ☐ Frozen ☐ Cooling InitiatedSubmission Comments identified on Sample Receipt Notification: ☐ Yes ☐ NoCooler Custody Seals Intact: ☐ Yes ☐ NA Sample Custody Seals Intact: ☐ Yes ☐ NA

Initial Cooler Temperatures °C

10.0, 14.2, 15.1, 8.1, 7.9, 8.8

manitowlin 3303388860

received by

Lab Phone:

Email Invoice to: rainyriver\_accounts1@newgold.com Email

## CERTIFICATE OF ANALYSIS

|                                |                                                             |                                |                                          |
|--------------------------------|-------------------------------------------------------------|--------------------------------|------------------------------------------|
| <b>Work Order</b>              | <b>: TY2411215</b>                                          |                                |                                          |
| <b>Client</b>                  | <b>: New Gold Inc. (Rainy River)</b>                        | <b>Laboratory</b>              | <b>: ALS Environmental - Thunder Bay</b> |
| <b>Contact</b>                 | <b>: Garnet.Cornell@newgold.com Garnet Cornell</b>          | <b>Account Manager</b>         | <b>: Christine Paradis</b>               |
| <b>Address</b>                 | <b>: 24 Marr Rd.</b>                                        | <b>Address</b>                 | <b>: 1081 Barton Street</b>              |
|                                | <b>: Barwick Ontario Canada P0W 1A0</b>                     |                                | <b>: Thunder Bay ON Canada P7B 5N3</b>   |
| <b>Telephone</b>               | <b>: 807 234 8170</b>                                       | <b>Telephone</b>               | <b>: +1 807 623 6463</b>                 |
| <b>Project</b>                 | <b>: SW Kit</b>                                             | <b>Date Samples Received</b>   | <b>: 04-Oct-2024 08:50</b>               |
| <b>PO</b>                      | <b>: 4700003796</b>                                         | <b>Date Analysis Commenced</b> | <b>: 04-Oct-2024</b>                     |
| <b>C-O-C number</b>            | <b>: ----</b>                                               | <b>Issue Date</b>              | <b>: 16-Oct-2024 17:24</b>               |
| <b>Sampler</b>                 | <b>: ----</b>                                               |                                |                                          |
| <b>Site</b>                    | <b>: New Gold Inc. (Rainy River)</b>                        |                                |                                          |
| <b>Quote number</b>            | <b>: New Gold Rainy River Project - Pick a Project 2024</b> |                                |                                          |
| <b>No. of samples received</b> | <b>: 6</b>                                                  |                                |                                          |
| <b>No. of samples analysed</b> | <b>: 6</b>                                                  |                                |                                          |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i>   | <i>Position</i>                        | <i>Laboratory Department</i>         |
|----------------------|----------------------------------------|--------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario     |
| Cassandra Grzelewski | Team Leader - Inorganics               | Administration, Thunder Bay, Ontario |
| Jon Fisher           | Production Manager, Environmental      | Metals, Waterloo, Ontario            |
| Jon Fisher           | Production Manager, Environmental      | Inorganics, Waterloo, Ontario        |
| Julie Ruoho          | Teamleader Wet Chem                    | Inorganics, Thunder Bay, Ontario     |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario          |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario         |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario         |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario     |
| Taelur Kachur        | Laboratory Analyst                     | Inorganics, Thunder Bay, Ontario     |





## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| mg/L     | milligrams per litre            |
| pH units | pH units                        |
| °C       | degrees celsius                 |
| µS/cm    | microsiemens per centimetre     |
| NTU      | nephelometric turbidity units   |
| CU       | colour units (1 cu = 1 mg/l pt) |
| -        | no units                        |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Qualifiers

| Qualifier | Description                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                                                                                 |
| DTMF      | Dissolved concentration exceeds total for field-filtered metals sample. Metallic contaminants may have been introduced to dissolved sample during field filtration. |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |                          |        |          | Client sample ID  | SW02_SW_20241001 SW | SW26_SW_20241001 SW | SW21A_SW_20241001 SW | FB_SW_20241001 SW | SW06_SW_20241001 SW |
|----------------------------------------------|------------|--------------------------|--------|----------|-------------------|---------------------|---------------------|----------------------|-------------------|---------------------|
| Client sampling date / time                  |            |                          |        |          | 02-Oct-2024 09:30 | 02-Oct-2024 10:00   | 02-Oct-2024 10:25   | 02-Oct-2024 12:00    | 02-Oct-2024 12:00 |                     |
| Analyte                                      | CAS Number | Method/Lab/Accreditation | LOR    | Unit     | TY2411215-001     | TY2411215-002       | TY2411215-003       | TY2411215-004        | TY2411215-005     |                     |
|                                              |            |                          |        |          | Result            | Result              | Result              | Result               | Result            |                     |
| Field Tests                                  |            |                          |        |          |                   |                     |                     |                      |                   |                     |
| Oxygen, dissolved, field                     | ----       | EF001/TY                 | 0.01   | mg/L     | 2.03              | 4.02                | 2.47                | ----                 | 0.57              |                     |
| pH, field                                    | ----       | EF001/TY                 | 0.10   | pH units | 7.31              | 7.75                | 7.51                | ----                 | 7.22              |                     |
| Temperature, field                           | ----       | EF001/TY                 | 0.10   | °C       | 11.3              | 10.6                | 11.9                | ----                 | 12.8              |                     |
| Physical Tests                               |            |                          |        |          |                   |                     |                     |                      |                   |                     |
| Acidity (as CaCO3)                           | ----       | E283/TY                  | 2.0    | mg/L     | 3.6               | <2.0                | 3.3                 | 2.1                  | 6.4               |                     |
| Colour, true                                 | ----       | E329-L/TY                | 2.0    | CU       | 130               | 45.0                | 91.8                | <2.0                 | 65.8              |                     |
| Conductivity                                 | ----       | E100/TY                  | 1.0    | µS/cm    | 200               | 529                 | 310                 | 1.5                  | 447               |                     |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY                 | 0.50   | mg/L     | 115               | 290                 | 157                 | <0.50                | 239               |                     |
| pH                                           | ----       | E108/TY                  | 0.10   | pH units | 7.74              | 8.17                | 7.89                | 5.88                 | 7.78              |                     |
| Solids, total dissolved [TDS]                | ----       | E162/TY                  | 10     | mg/L     | 166               | 334                 | 221                 | <10                  | 278               |                     |
| Solids, total suspended [TSS]                | ----       | E160/TY                  | 3.0    | mg/L     | <3.0              | <3.0                | 9.0                 | <3.0                 | <3.0              |                     |
| Turbidity                                    | ----       | E121/TY                  | 0.10   | NTU      | 1.67              | 5.04                | 7.72                | <0.10                | 2.34              |                     |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY                  | 2.0    | mg/L     | 111               | 266                 | 159                 | <2.0                 | 240               |                     |
| Anions and Nutrients                         |            |                          |        |          |                   |                     |                     |                      |                   |                     |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY                  | 0.0050 | mg/L     | 0.0529 <T         | 0.0101 <T           | 0.0810 <T           | <0.0050              | 0.0070 <T         |                     |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY                | 0.0010 | mg/L     | <0.0010           | <0.0010             | <0.0010             | ----                 | <0.0010           |                     |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY             | 0.10   | mg/L     | 0.20              | 9.44                | 14.8                | <0.10                | 12.9              |                     |
| Fluoride                                     | 16984-48-8 | E235.F/TY                | 0.020  | mg/L     | 0.030             | 0.073               | 0.052               | <0.020               | 0.064             |                     |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY                  | 0.050  | mg/L     | 2.48              | 0.804               | 1.63                | <0.050               | 1.16              |                     |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY              | 0.020  | mg/L     | <0.020            | <0.020              | <0.020              | <0.020               | <0.020            |                     |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY              | 0.010  | mg/L     | <0.010            | <0.010              | <0.010              | <0.010               | <0.010            |                     |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |                          |           |      | Client sample ID | SW02_SW_20241001 SW        | SW26_SW_20241001 SW      | SW21A_SW_20241001 SW       | FB_SW_20241001 SW | SW06_SW_20241001 SW        |
|------------------------------------------|------------|--------------------------|-----------|------|------------------|----------------------------|--------------------------|----------------------------|-------------------|----------------------------|
| Client sampling date / time              |            |                          |           |      |                  | 02-Oct-2024 09:30          | 02-Oct-2024 10:00        | 02-Oct-2024 10:25          | 02-Oct-2024 12:00 | 02-Oct-2024 12:00          |
| Analyte                                  | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2411215-001              | TY2411215-002            | TY2411215-003              | TY2411215-004     | TY2411215-005              |
|                                          |            |                          |           |      |                  | Result                     | Result                   | Result                     | Result            | Result                     |
| Anions and Nutrients                     |            |                          |           |      |                  |                            |                          |                            |                   |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY                | 0.0010    | mg/L |                  | 0.0012                     | 0.0027                   | 0.0431                     | <0.0010           | 0.0358                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY              | 0.30      | mg/L |                  | <0.30                      | 43.2                     | 0.65                       | <0.30             | 27.1                       |
| Cyanides                                 |            |                          |           |      |                  |                            |                          |                            |                   |                            |
| Cyanide, free                            | ----       | E339/WT                  | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020           | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT                  | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020           | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT                  | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                  | <0.0020                    | <0.0020           | <0.0020                    |
| Organic / Inorganic Carbon               |            |                          |           |      |                  |                            |                          |                            |                   |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT                | 0.50      | mg/L |                  | 33.4                       | 21.7                     | 31.4                       | <0.50             | 24.3                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT                | 0.50      | mg/L |                  | 31.6                       | 20.3                     | 29.3                       | <0.50             | 23.7                       |
| Total Metals                             |            |                          |           |      |                  |                            |                          |                            |                   |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY                  | 0.0030    | mg/L |                  | 0.0330                     | 0.0632                   | 0.249                      | <0.0030           | 0.0507                     |
| Antimony, total                          | 7440-36-0  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                 | <0.00010                   | <0.00010          | <0.00010                   |
| Arsenic, total                           | 7440-38-2  | E420/TY                  | 0.00010   | mg/L |                  | 0.00097 <sup>&lt;T</sup>   | 0.00142 <sup>&lt;T</sup> | 0.00162 <sup>&lt;T</sup>   | <0.00010          | 0.00134 <sup>&lt;T</sup>   |
| Barium, total                            | 7440-39-3  | E420/TY                  | 0.00010   | mg/L |                  | 0.0145                     | 0.0273                   | 0.0213                     | 0.00032           | 0.0254                     |
| Beryllium, total                         | 7440-41-7  | E420/TY                  | 0.000020  | mg/L |                  | <0.000020                  | <0.000020                | 0.000025 <sup>&lt;T</sup>  | <0.000020         | <0.000020                  |
| Bismuth, total                           | 7440-69-9  | E420/TY                  | 0.000050  | mg/L |                  | <0.000050                  | <0.000050                | <0.000050                  | <0.000050         | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY                  | 0.010     | mg/L |                  | 0.010                      | 0.024 <sup>&lt;T</sup>   | 0.017 <sup>&lt;T</sup>     | <0.010            | 0.019 <sup>&lt;T</sup>     |
| Cadmium, total                           | 7440-43-9  | E420/TY                  | 0.0000050 | mg/L |                  | 0.0000093 <sup>&lt;T</sup> | <0.0000050               | 0.0000083 <sup>&lt;T</sup> | <0.0000050        | 0.0000134 <sup>&lt;T</sup> |
| Calcium, total                           | 7440-70-2  | E420/TY                  | 0.050     | mg/L |                  | 29.7                       | 73.7                     | 39.6                       | <0.050            | 61.3                       |
| Cesium, total                            | 7440-46-2  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                  | <0.000010                | 0.000034                   | <0.000010         | <0.000010                  |
| Chromium, total                          | 7440-47-3  | E420/TY                  | 0.00050   | mg/L |                  | <0.00050                   | <0.00050                 | 0.00066 <sup>&lt;T</sup>   | <0.00050          | <0.00050                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW02_SW_20241001 SW       | SW26_SW_20241001 SW       | SW21A_SW_20241001 SW      | FB_SW_20241001 SW        | SW06_SW_20241001 SW       |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------------|---------------------------|---------------------------|--------------------------|---------------------------|
| Client sampling date / time |            |                          |           |      |                  | 02-Oct-2024 09:30         | 02-Oct-2024 10:00         | 02-Oct-2024 10:25         | 02-Oct-2024 12:00        | 02-Oct-2024 12:00         |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2411215-001             | TY2411215-002             | TY2411215-003             | TY2411215-004            | TY2411215-005             |
|                             |            |                          |           |      |                  | Result                    | Result                    | Result                    | Result                   | Result                    |
| <b>Total Metals</b>         |            |                          |           |      |                  |                           |                           |                           |                          |                           |
| Cobalt, total               | 7440-48-4  | E420/TY                  | 0.00010   | mg/L |                  | 0.00020 <sup>&lt;T</sup>  | 0.00012 <sup>&lt;T</sup>  | 0.00072 <sup>&lt;T</sup>  | <0.00010                 | 0.00022 <sup>&lt;T</sup>  |
| Copper, total               | 7440-50-8  | E420/TY                  | 0.00050   | mg/L |                  | <0.00050                  | 0.00113 <sup>&lt;T</sup>  | 0.00059 <sup>&lt;T</sup>  | 0.00126 <sup>&lt;T</sup> | <0.00050                  |
| Iron, total                 | 7439-89-6  | E420/TY                  | 0.010     | mg/L |                  | 0.506                     | 0.160                     | 0.847                     | <0.010                   | 0.248                     |
| Lead, total                 | 7439-92-1  | E420/TY                  | 0.000050  | mg/L |                  | 0.000063 <sup>&lt;T</sup> | <0.000050                 | 0.000160 <sup>&lt;T</sup> | <0.000050                | <0.000050                 |
| Lithium, total              | 7439-93-2  | E420/TY                  | 0.0010    | mg/L |                  | 0.0018 <sup>&lt;T</sup>   | 0.0099 <sup>&lt;T</sup>   | 0.0052 <sup>&lt;T</sup>   | <0.0010                  | 0.0066 <sup>&lt;T</sup>   |
| Magnesium, total            | 7439-95-4  | E420/TY                  | 0.0050    | mg/L |                  | 11.6                      | 27.9                      | 16.4                      | <0.0050                  | 22.2                      |
| Manganese, total            | 7439-96-5  | E420/TY                  | 0.00010   | mg/L |                  | 0.0758                    | 0.0338                    | 0.664                     | <0.00010                 | 0.217                     |
| Mercury, total              | 7439-97-6  | E508/WT                  | 0.0000050 | mg/L |                  | <0.0000050                | <0.0000050                | <0.0000050                | <0.0000050               | <0.0000050                |
| Molybdenum, total           | 7439-98-7  | E420/TY                  | 0.000050  | mg/L |                  | <0.000050                 | 0.000708 <sup>&lt;T</sup> | 0.000314 <sup>&lt;T</sup> | <0.000050                | 0.000269 <sup>&lt;T</sup> |
| Nickel, total               | 7440-02-0  | E420/TY                  | 0.00050   | mg/L |                  | 0.00063 <sup>&lt;T</sup>  | 0.00136 <sup>&lt;T</sup>  | 0.00189 <sup>&lt;T</sup>  | <0.00050                 | 0.00108 <sup>&lt;T</sup>  |
| Phosphorus, total           | 7723-14-0  | E420/TY                  | 0.050     | mg/L |                  | <0.050                    | <0.050                    | 0.096                     | <0.050                   | 0.078                     |
| Potassium, total            | 7440-09-7  | E420/TY                  | 0.050     | mg/L |                  | 1.28                      | 2.64                      | 2.83                      | <0.050                   | 2.89                      |
| Rubidium, total             | 7440-17-7  | E420/TY                  | 0.00020   | mg/L |                  | 0.00206                   | 0.00184                   | 0.00336                   | <0.00020                 | 0.00238                   |
| Selenium, total             | 7782-49-2  | E420/TY                  | 0.000050  | mg/L |                  | 0.000122 <sup>&lt;T</sup> | 0.000161 <sup>&lt;T</sup> | 0.000169 <sup>&lt;T</sup> | <0.000050                | 0.000122 <sup>&lt;T</sup> |
| Silicon, total              | 7440-21-3  | E420/TY                  | 0.10      | mg/L |                  | 7.42                      | 3.58                      | 6.69                      | <0.10                    | 5.36                      |
| Silver, total               | 7440-22-4  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                 | <0.000010                 | <0.000010                 | <0.000010                | <0.000010                 |
| Sodium, total               | 7440-23-5  | E420/TY                  | 0.050     | mg/L |                  | 0.972                     | 7.10                      | 7.61                      | 0.196                    | 6.64                      |
| Strontium, total            | 7440-24-6  | E420/TY                  | 0.00020   | mg/L |                  | 0.0506                    | 0.195                     | 0.0958                    | <0.00020                 | 0.151                     |
| Sulfur, total               | 7704-34-9  | E420/TY                  | 0.50      | mg/L |                  | <0.50                     | 14.6                      | 0.70                      | <0.50                    | 9.51                      |
| Tellurium, total            | 13494-80-9 | E420/TY                  | 0.00020   | mg/L |                  | <0.00020                  | <0.00020                  | <0.00020                  | <0.00020                 | <0.00020                  |
| Thallium, total             | 7440-28-0  | E420/TY                  | 0.000010  | mg/L |                  | <0.000010                 | <0.000010                 | <0.000010                 | <0.000010                | <0.000010                 |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW02_SW_20241001 SW       | SW26_SW_20241001 SW      | SW21A_SW_20241001 SW      | FB_SW_20241001 SW | SW06_SW_20241001 SW       |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| Client sampling date / time |            |                          |           |      |                  | 02-Oct-2024 09:30         | 02-Oct-2024 10:00        | 02-Oct-2024 10:25         | 02-Oct-2024 12:00 | 02-Oct-2024 12:00         |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2411215-001             | TY2411215-002            | TY2411215-003             | TY2411215-004     | TY2411215-005             |
|                             |            |                          |           |      |                  | Result                    | Result                   | Result                    | Result            | Result                    |
| Total Metals                |            |                          |           |      |                  |                           |                          |                           |                   |                           |
| Thorium, total              | 7440-29-1  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                 | <0.00010                  | <0.00010          | <0.00010                  |
| Tin, total                  | 7440-31-5  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                 | <0.00010                  | <0.00010          | <0.00010                  |
| Titanium, total             | 7440-32-6  | E420/TY                  | 0.00030   | mg/L |                  | 0.00096                   | 0.00256                  | 0.00907                   | <0.00030          | 0.00214                   |
| Tungsten, total             | 7440-33-7  | E420/TY                  | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                 | <0.00010                  | <0.00010          | <0.00010                  |
| Uranium, total              | 7440-61-1  | E420/TY                  | 0.000010  | mg/L |                  | 0.000043 <sup>&lt;T</sup> | 0.00134 <sup>&lt;T</sup> | 0.000308 <sup>&lt;T</sup> | <0.000010         | 0.000498 <sup>&lt;T</sup> |
| Vanadium, total             | 7440-62-2  | E420/TY                  | 0.00050   | mg/L |                  | <0.00050                  | 0.00057                  | 0.00120                   | <0.00050          | <0.00050                  |
| Zinc, total                 | 7440-66-6  | E420/TY                  | 0.0030    | mg/L |                  | <0.0030                   | <0.0030                  | <0.0030                   | <0.0030           | 0.0057 <sup>&lt;T</sup>   |
| Zirconium, total            | 7440-67-7  | E420/TY                  | 0.00020   | mg/L |                  | <0.00020                  | 0.00021                  | 0.00032                   | <0.00020          | <0.00020                  |
| Dissolved Metals            |            |                          |           |      |                  |                           |                          |                           |                   |                           |
| Aluminum, dissolved         | 7429-90-5  | E421/TY                  | 0.0010    | mg/L |                  | 0.0131                    | 0.0059                   | 0.0073                    | <0.0010           | 0.0025                    |
| Antimony, dissolved         | 7440-36-0  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010                  | <0.00010                 | <0.00010                  | <0.00010          | <0.00010                  |
| Arsenic, dissolved          | 7440-38-2  | E421/TY                  | 0.00010   | mg/L |                  | 0.00094                   | 0.00135                  | 0.00147                   | <0.00010          | 0.00116                   |
| Barium, dissolved           | 7440-39-3  | E421/TY                  | 0.00010   | mg/L |                  | 0.0138                    | 0.0267                   | 0.0190                    | 0.00033           | 0.0232                    |
| Beryllium, dissolved        | 7440-41-7  | E421/TY                  | 0.000020  | mg/L |                  | <0.000020                 | <0.000020                | <0.000020                 | <0.000020         | <0.000020                 |
| Bismuth, dissolved          | 7440-69-9  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050                 | <0.000050                | <0.000050                 | <0.000050         | <0.000050                 |
| Boron, dissolved            | 7440-42-8  | E421/TY                  | 0.010     | mg/L |                  | <0.010                    | 0.021                    | 0.017                     | <0.010            | 0.018                     |
| Cadmium, dissolved          | 7440-43-9  | E421/TY                  | 0.0000050 | mg/L |                  | <0.0000050                | <0.0000050               | <0.0000050                | <0.0000050        | 0.0000119                 |
| Calcium, dissolved          | 7440-70-2  | E421/TY                  | 0.050     | mg/L |                  | 28.6                      | 71.3                     | 37.3                      | <0.050            | 59.7                      |
| Cesium, dissolved           | 7440-46-2  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010                 | <0.000010                | <0.000010                 | <0.000010         | <0.000010                 |
| Chromium, dissolved         | 7440-47-3  | E421/TY                  | 0.00050   | mg/L |                  | <0.00050                  | <0.00050                 | <0.00050                  | <0.00050          | <0.00050                  |
| Cobalt, dissolved           | 7440-48-4  | E421/TY                  | 0.00010   | mg/L |                  | 0.00016                   | <0.00010                 | 0.00056                   | <0.00010          | 0.00019                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |           |      | Client sample ID | SW02_SW_20241001 SW | SW26_SW_20241001 SW | SW21A_SW_20241001 SW | FB_SW_20241001 SW | SW06_SW_20241001 SW |
|-----------------------------|------------|--------------------------|-----------|------|------------------|---------------------|---------------------|----------------------|-------------------|---------------------|
| Client sampling date / time |            |                          |           |      |                  | 02-Oct-2024 09:30   | 02-Oct-2024 10:00   | 02-Oct-2024 10:25    | 02-Oct-2024 12:00 | 02-Oct-2024 12:00   |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit |                  | TY2411215-001       | TY2411215-002       | TY2411215-003        | TY2411215-004     | TY2411215-005       |
|                             |            |                          |           |      |                  | Result              | Result              | Result               | Result            | Result              |
| Dissolved Metals            |            |                          |           |      |                  |                     |                     |                      |                   |                     |
| Copper, dissolved           | 7440-50-8  | E421/TY                  | 0.00020   | mg/L |                  | <0.00020            | 0.00108             | 0.00036              | 0.00126           | 0.00027             |
| Iron, dissolved             | 7439-89-6  | E421/TY                  | 0.010     | mg/L |                  | 0.363               | 0.069               | 0.333                | <0.010            | 0.134               |
| Lead, dissolved             | 7439-92-1  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050           | <0.000050           | <0.000050            | <0.000050         | <0.000050           |
| Lithium, dissolved          | 7439-93-2  | E421/TY                  | 0.0010    | mg/L |                  | 0.0018              | 0.0112              | 0.0054               | <0.0010           | 0.0072              |
| Magnesium, dissolved        | 7439-95-4  | E421/TY                  | 0.0050    | mg/L |                  | 10.5                | 27.1                | 15.5                 | <0.0050           | 21.9                |
| Manganese, dissolved        | 7439-96-5  | E421/TY                  | 0.00010   | mg/L |                  | 0.0484              | 0.0288              | 0.565                | <0.00010          | 0.185               |
| Mercury, dissolved          | 7439-97-6  | E509/WT                  | 0.0000050 | mg/L |                  | <0.0000050          | <0.0000050          | <0.0000050           | <0.0000050        | <0.0000050          |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY                  | 0.000050  | mg/L |                  | <0.000050           | 0.000691            | 0.000328             | <0.000050         | 0.000252            |
| Nickel, dissolved           | 7440-02-0  | E421/TY                  | 0.00050   | mg/L |                  | 0.00057             | 0.00129             | 0.00159              | <0.00050          | 0.00098             |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY                  | 0.050     | mg/L |                  | <0.050              | <0.050              | 0.062                | <0.050            | 0.057               |
| Potassium, dissolved        | 7440-09-7  | E421/TY                  | 0.050     | mg/L |                  | 1.22                | 2.60                | 2.71                 | <0.050            | 2.70                |
| Rubidium, dissolved         | 7440-17-7  | E421/TY                  | 0.00020   | mg/L |                  | 0.00176             | 0.00162             | 0.00254              | <0.00020          | 0.00211             |
| Selenium, dissolved         | 7782-49-2  | E421/TY                  | 0.000050  | mg/L |                  | 0.000124            | 0.000176            | 0.000226             | <0.000050         | 0.000177            |
| Silicon, dissolved          | 7440-21-3  | E421/TY                  | 0.050     | mg/L |                  | 7.40                | 3.58                | 6.02                 | 0.061             | 5.04                |
| Silver, dissolved           | 7440-22-4  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000010            | <0.000010         | <0.000010           |
| Sodium, dissolved           | 7440-23-5  | E421/TY                  | 0.050     | mg/L |                  | 0.940               | 6.97                | 7.40                 | 0.194             | 6.95                |
| Strontium, dissolved        | 7440-24-6  | E421/TY                  | 0.00020   | mg/L |                  | 0.0507              | 0.196               | 0.0933               | <0.00020          | 0.151               |
| Sulfur, dissolved           | 7704-34-9  | E421/TY                  | 0.50      | mg/L |                  | <0.50               | 14.6                | 0.94                 | <0.50             | 8.69                |
| Tellurium, dissolved        | 13494-80-9 | E421/TY                  | 0.00020   | mg/L |                  | <0.00020            | <0.00020            | <0.00020             | <0.00020          | <0.00020            |
| Thallium, dissolved         | 7440-28-0  | E421/TY                  | 0.000010  | mg/L |                  | <0.000010           | <0.000010           | <0.000010            | <0.000010         | <0.000010           |
| Thorium, dissolved          | 7440-29-1  | E421/TY                  | 0.00010   | mg/L |                  | <0.00010            | <0.00010            | <0.00010             | <0.00010          | <0.00010            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |                          |          |      | Client sample ID | SW02_SW_20241<br>001<br>SW | SW26_SW_202410<br>01<br>SW | SW21A_SW_2024<br>1001<br>SW | FB_SW_20241001<br>SW | SW06_SW_202410<br>01<br>SW |
|---------------------------------------|------------|--------------------------|----------|------|------------------|----------------------------|----------------------------|-----------------------------|----------------------|----------------------------|
| Client sampling date / time           |            |                          |          |      |                  | 02-Oct-2024 09:30          | 02-Oct-2024 10:00          | 02-Oct-2024 10:25           | 02-Oct-2024 12:00    | 02-Oct-2024 12:00          |
| Analyte                               | CAS Number | Method/Lab/Accreditation | LOR      | Unit |                  | TY2411215-001              | TY2411215-002              | TY2411215-003               | TY2411215-004        | TY2411215-005              |
|                                       |            |                          |          |      |                  | Result                     | Result                     | Result                      | Result               | Result                     |
| <b>Dissolved Metals</b>               |            |                          |          |      |                  |                            |                            |                             |                      |                            |
| Tin, dissolved                        | 7440-31-5  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010             | <0.00010                   |
| Titanium, dissolved                   | 7440-32-6  | E421/TY                  | 0.00030  | mg/L |                  | 0.00034                    | 0.00078                    | 0.00069                     | <0.00030             | 0.00037                    |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY                  | 0.00010  | mg/L |                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010             | <0.00010                   |
| Uranium, dissolved                    | 7440-61-1  | E421/TY                  | 0.000010 | mg/L |                  | 0.000041                   | 0.00132                    | 0.000294                    | <0.000010            | 0.000504                   |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY                  | 0.00050  | mg/L |                  | <0.00050                   | <0.00050                   | <0.00050                    | <0.00050             | <0.00050                   |
| Zinc, dissolved                       | 7440-66-6  | E421/TY                  | 0.0010   | mg/L |                  | 0.0015                     | 0.0018                     | 0.0042 <sup>DTMF</sup>      | <0.0010              | 0.0074                     |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY                  | 0.00030  | mg/L |                  | <0.00030                   | <0.00030                   | <0.00030                    | <0.00030             | <0.00030                   |
| Dissolved mercury filtration location | ----       | EP509/WT                 | -        | -    |                  | Field                      | Field                      | Field                       | Field                | Field                      |
| Dissolved metals filtration location  | ----       | EP421/TY                 | -        | -    |                  | Field                      | Field                      | Field                       | Field                | Field                      |
| <b>Aggregate Organics</b>             |            |                          |          |      |                  |                            |                            |                             |                      |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY                  | 2.0      | mg/L |                  | <2.0                       | <2.0                       | <2.0                        | <2.0                 | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY                | 10       | mg/L |                  | 101                        | 66                         | 95                          | <10                  | 76                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT                | 1.0      | mg/L |                  | <1.0                       | ----                       | <1.0                        | <1.0                 | <1.0                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |                          |      |      | Client sample ID | SW27_SW_20241<br>001<br>SW |      |      |      |      |
|-----------------------------|------------|--------------------------|------|------|------------------|----------------------------|------|------|------|------|
| Client sampling date / time |            |                          |      |      |                  | 02-Oct-2024 14:00          | ---- | ---- | ---- | ---- |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR  | Unit |                  | TY2411215-006              |      |      |      |      |
|                             |            |                          |      |      |                  | Result                     |      |      |      |      |
| <b>Field Tests</b>          |            |                          |      |      |                  |                            |      |      |      |      |
| Oxygen, dissolved, field    | ----       | EF001/TY                 | 0.01 | mg/L |                  | 0.57                       | ---- | ---- | ---- | ---- |





## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID                            |            |                          |        |          | SW27_SW_20241<br>001<br>SW | ---- | ---- | ---- | ---- |
|---------------------------------------------|------------|--------------------------|--------|----------|----------------------------|------|------|------|------|
| Client sampling date / time                 |            |                          |        |          | 02-Oct-2024 14:00          | ---- | ---- | ---- | ---- |
| Analyte                                     | CAS Number | Method/Lab/Accreditation | LOR    | Unit     | TY2411215-006              | ---- | ---- | ---- | ---- |
|                                             |            |                          |        |          | Result                     | ---- | ---- | ---- | ---- |
| Field Tests                                 |            |                          |        |          |                            |      |      |      |      |
| pH, field                                   | ----       | EF001/TY                 | 0.10   | pH units | 7.22                       | ---- | ---- | ---- | ---- |
| Temperature, field                          | ----       | EF001/TY                 | 0.10   | °C       | 12.8                       | ---- | ---- | ---- | ---- |
| Physical Tests                              |            |                          |        |          |                            |      |      |      |      |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY                  | 2.0    | mg/L     | 5.1                        | ---- | ---- | ---- | ---- |
| Colour, true                                | ----       | E329-L/TY                | 2.0    | CU       | 65.7                       | ---- | ---- | ---- | ---- |
| Conductivity                                | ----       | E100/TY                  | 1.0    | µS/cm    | 444                        | ---- | ---- | ---- | ---- |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY                 | 0.50   | mg/L     | 236                        | ---- | ---- | ---- | ---- |
| pH                                          | ----       | E108/TY                  | 0.10   | pH units | 7.83                       | ---- | ---- | ---- | ---- |
| Solids, total dissolved [TDS]               | ----       | E162/TY                  | 10     | mg/L     | 289                        | ---- | ---- | ---- | ---- |
| Solids, total suspended [TSS]               | ----       | E160/TY                  | 3.0    | mg/L     | <3.0                       | ---- | ---- | ---- | ---- |
| Turbidity                                   | ----       | E121/TY                  | 0.10   | NTU      | 1.80                       | ---- | ---- | ---- | ---- |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY                  | 2.0    | mg/L     | 233                        | ---- | ---- | ---- | ---- |
| Anions and Nutrients                        |            |                          |        |          |                            |      |      |      |      |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY                  | 0.0050 | mg/L     | 0.0072 <sup>&lt;T</sup>    | ---- | ---- | ---- | ---- |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY                | 0.0010 | mg/L     | <0.0010                    | ---- | ---- | ---- | ---- |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY             | 0.10   | mg/L     | 13.0                       | ---- | ---- | ---- | ---- |
| Fluoride                                    | 16984-48-8 | E235.F/TY                | 0.020  | mg/L     | 0.058                      | ---- | ---- | ---- | ---- |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY                  | 0.050  | mg/L     | 1.12                       | ---- | ---- | ---- | ---- |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY              | 0.020  | mg/L     | <0.020                     | ---- | ---- | ---- | ---- |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY              | 0.010  | mg/L     | <0.010                     | ---- | ---- | ---- | ---- |
| Phosphate, ortho-, dissolved (as P)         | 14265-44-2 | E378-U/TY                | 0.0010 | mg/L     | 0.0370                     | ---- | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID                         |            |                          |           |      | SW27_SW_20241<br>001<br>SW | ---- | ---- | ---- | ---- |
|------------------------------------------|------------|--------------------------|-----------|------|----------------------------|------|------|------|------|
| Client sampling date / time              |            |                          |           |      | 02-Oct-2024 14:00          | ---- | ---- | ---- | ---- |
| Analyte                                  | CAS Number | Method/Lab/Accreditation | LOR       | Unit | TY2411215-006              | ---- | ---- | ---- | ---- |
|                                          |            |                          |           |      | Result                     | ---- | ---- | ---- | ---- |
| Anions and Nutrients                     |            |                          |           |      |                            |      |      |      |      |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY              | 0.30      | mg/L | 27.4                       | ---- | ---- | ---- | ---- |
| Cyanides                                 |            |                          |           |      |                            |      |      |      |      |
| Cyanide, free                            | ---        | E339/WT                  | 0.0020    | mg/L | <0.0020                    | ---- | ---- | ---- | ---- |
| Cyanide, strong acid dissociable (Total) | ---        | E333/WT                  | 0.0020    | mg/L | <0.0020                    | ---- | ---- | ---- | ---- |
| Cyanide, weak acid dissociable           | ---        | E336/WT                  | 0.0020    | mg/L | <0.0020                    | ---- | ---- | ---- | ---- |
| Organic / Inorganic Carbon               |            |                          |           |      |                            |      |      |      |      |
| Carbon, dissolved organic [DOC]          | ---        | E358-L/WT                | 0.50      | mg/L | 24.2                       | ---- | ---- | ---- | ---- |
| Carbon, total organic [TOC]              | ---        | E355-L/WT                | 0.50      | mg/L | 22.8                       | ---- | ---- | ---- | ---- |
| Total Metals                             |            |                          |           |      |                            |      |      |      |      |
| Aluminum, total                          | 7429-90-5  | E420/TY                  | 0.0030    | mg/L | 0.0541                     | ---- | ---- | ---- | ---- |
| Antimony, total                          | 7440-36-0  | E420/TY                  | 0.00010   | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |
| Arsenic, total                           | 7440-38-2  | E420/TY                  | 0.00010   | mg/L | 0.00128 <sup>&lt;T</sup>   | ---- | ---- | ---- | ---- |
| Barium, total                            | 7440-39-3  | E420/TY                  | 0.00010   | mg/L | 0.0249                     | ---- | ---- | ---- | ---- |
| Beryllium, total                         | 7440-41-7  | E420/TY                  | 0.000020  | mg/L | <0.000020                  | ---- | ---- | ---- | ---- |
| Bismuth, total                           | 7440-69-9  | E420/TY                  | 0.000050  | mg/L | <0.000050                  | ---- | ---- | ---- | ---- |
| Boron, total                             | 7440-42-8  | E420/TY                  | 0.010     | mg/L | 0.019 <sup>&lt;T</sup>     | ---- | ---- | ---- | ---- |
| Cadmium, total                           | 7440-43-9  | E420/TY                  | 0.0000050 | mg/L | 0.0000238 <sup>&lt;T</sup> | ---- | ---- | ---- | ---- |
| Calcium, total                           | 7440-70-2  | E420/TY                  | 0.050     | mg/L | 60.9                       | ---- | ---- | ---- | ---- |
| Cesium, total                            | 7440-46-2  | E420/TY                  | 0.000010  | mg/L | <0.000010                  | ---- | ---- | ---- | ---- |
| Chromium, total                          | 7440-47-3  | E420/TY                  | 0.00050   | mg/L | <0.00050                   | ---- | ---- | ---- | ---- |
| Cobalt, total                            | 7440-48-4  | E420/TY                  | 0.00010   | mg/L | 0.00022 <sup>&lt;T</sup>   | ---- | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID            |            |                          |           |      | SW27_SW_20241<br>001<br>SW | ---- | ---- | ---- | ---- |
|-----------------------------|------------|--------------------------|-----------|------|----------------------------|------|------|------|------|
| Client sampling date / time |            |                          |           |      | 02-Oct-2024 14:00          | ---- | ---- | ---- | ---- |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit | TY2411215-006              | ---- | ---- | ---- | ---- |
|                             |            |                          |           |      | Result                     | ---- | ---- | ---- | ---- |
| Total Metals                |            |                          |           |      |                            |      |      |      |      |
| Copper, total               | 7440-50-8  | E420/TY                  | 0.00050   | mg/L | <0.00050                   | ---- | ---- | ---- | ---- |
| Iron, total                 | 7439-89-6  | E420/TY                  | 0.010     | mg/L | 0.245                      | ---- | ---- | ---- | ---- |
| Lead, total                 | 7439-92-1  | E420/TY                  | 0.000050  | mg/L | <0.000050                  | ---- | ---- | ---- | ---- |
| Lithium, total              | 7439-93-2  | E420/TY                  | 0.0010    | mg/L | 0.0065 <sup>&lt;T</sup>    | ---- | ---- | ---- | ---- |
| Magnesium, total            | 7439-95-4  | E420/TY                  | 0.0050    | mg/L | 22.0                       | ---- | ---- | ---- | ---- |
| Manganese, total            | 7439-96-5  | E420/TY                  | 0.00010   | mg/L | 0.224                      | ---- | ---- | ---- | ---- |
| Mercury, total              | 7439-97-6  | E508/WT                  | 0.0000050 | mg/L | <0.0000050                 | ---- | ---- | ---- | ---- |
| Molybdenum, total           | 7439-98-7  | E420/TY                  | 0.000050  | mg/L | 0.000250 <sup>&lt;T</sup>  | ---- | ---- | ---- | ---- |
| Nickel, total               | 7440-02-0  | E420/TY                  | 0.00050   | mg/L | 0.00108 <sup>&lt;T</sup>   | ---- | ---- | ---- | ---- |
| Phosphorus, total           | 7723-14-0  | E420/TY                  | 0.050     | mg/L | 0.073                      | ---- | ---- | ---- | ---- |
| Potassium, total            | 7440-09-7  | E420/TY                  | 0.050     | mg/L | 2.88                       | ---- | ---- | ---- | ---- |
| Rubidium, total             | 7440-17-7  | E420/TY                  | 0.00020   | mg/L | 0.00234                    | ---- | ---- | ---- | ---- |
| Selenium, total             | 7782-49-2  | E420/TY                  | 0.000050  | mg/L | 0.000164 <sup>&lt;T</sup>  | ---- | ---- | ---- | ---- |
| Silicon, total              | 7440-21-3  | E420/TY                  | 0.10      | mg/L | 5.20                       | ---- | ---- | ---- | ---- |
| Silver, total               | 7440-22-4  | E420/TY                  | 0.000010  | mg/L | <0.000010                  | ---- | ---- | ---- | ---- |
| Sodium, total               | 7440-23-5  | E420/TY                  | 0.050     | mg/L | 6.72                       | ---- | ---- | ---- | ---- |
| Strontium, total            | 7440-24-6  | E420/TY                  | 0.00020   | mg/L | 0.149                      | ---- | ---- | ---- | ---- |
| Sulfur, total               | 7704-34-9  | E420/TY                  | 0.50      | mg/L | 9.16                       | ---- | ---- | ---- | ---- |
| Tellurium, total            | 13494-80-9 | E420/TY                  | 0.00020   | mg/L | <0.00020                   | ---- | ---- | ---- | ---- |
| Thallium, total             | 7440-28-0  | E420/TY                  | 0.000010  | mg/L | <0.000010                  | ---- | ---- | ---- | ---- |
| Thorium, total              | 7440-29-1  | E420/TY                  | 0.00010   | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID            |            |                          |           |      | SW27_SW_20241<br>001<br>SW | ---- | ---- | ---- | ---- |
|-----------------------------|------------|--------------------------|-----------|------|----------------------------|------|------|------|------|
| Client sampling date / time |            |                          |           |      | 02-Oct-2024 14:00          | ---- | ---- | ---- | ---- |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit | TY2411215-006              | ---- | ---- | ---- | ---- |
|                             |            |                          |           |      | Result                     | ---- | ---- | ---- | ---- |
| Total Metals                |            |                          |           |      |                            |      |      |      |      |
| Tin, total                  | 7440-31-5  | E420/TY                  | 0.00010   | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |
| Titanium, total             | 7440-32-6  | E420/TY                  | 0.00030   | mg/L | 0.00227                    | ---- | ---- | ---- | ---- |
| Tungsten, total             | 7440-33-7  | E420/TY                  | 0.00010   | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |
| Uranium, total              | 7440-61-1  | E420/TY                  | 0.000010  | mg/L | 0.000502 <sup>&lt;T</sup>  | ---- | ---- | ---- | ---- |
| Vanadium, total             | 7440-62-2  | E420/TY                  | 0.00050   | mg/L | <0.00050                   | ---- | ---- | ---- | ---- |
| Zinc, total                 | 7440-66-6  | E420/TY                  | 0.0030    | mg/L | 0.0134                     | ---- | ---- | ---- | ---- |
| Zirconium, total            | 7440-67-7  | E420/TY                  | 0.00020   | mg/L | <0.00020                   | ---- | ---- | ---- | ---- |
| Dissolved Metals            |            |                          |           |      |                            |      |      |      |      |
| Aluminum, dissolved         | 7429-90-5  | E421/TY                  | 0.0010    | mg/L | 0.0099                     | ---- | ---- | ---- | ---- |
| Antimony, dissolved         | 7440-36-0  | E421/TY                  | 0.00010   | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |
| Arsenic, dissolved          | 7440-38-2  | E421/TY                  | 0.00010   | mg/L | 0.00114                    | ---- | ---- | ---- | ---- |
| Barium, dissolved           | 7440-39-3  | E421/TY                  | 0.00010   | mg/L | 0.0246                     | ---- | ---- | ---- | ---- |
| Beryllium, dissolved        | 7440-41-7  | E421/TY                  | 0.000020  | mg/L | <0.000020                  | ---- | ---- | ---- | ---- |
| Bismuth, dissolved          | 7440-69-9  | E421/TY                  | 0.000050  | mg/L | <0.000050                  | ---- | ---- | ---- | ---- |
| Boron, dissolved            | 7440-42-8  | E421/TY                  | 0.010     | mg/L | 0.018                      | ---- | ---- | ---- | ---- |
| Cadmium, dissolved          | 7440-43-9  | E421/TY                  | 0.0000050 | mg/L | 0.0000288                  | ---- | ---- | ---- | ---- |
| Calcium, dissolved          | 7440-70-2  | E421/TY                  | 0.050     | mg/L | 60.1                       | ---- | ---- | ---- | ---- |
| Cesium, dissolved           | 7440-46-2  | E421/TY                  | 0.000010  | mg/L | <0.000010                  | ---- | ---- | ---- | ---- |
| Chromium, dissolved         | 7440-47-3  | E421/TY                  | 0.00050   | mg/L | <0.00050                   | ---- | ---- | ---- | ---- |
| Cobalt, dissolved           | 7440-48-4  | E421/TY                  | 0.00010   | mg/L | 0.00018                    | ---- | ---- | ---- | ---- |
| Copper, dissolved           | 7440-50-8  | E421/TY                  | 0.00020   | mg/L | 0.00039                    | ---- | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID            |            |                          |           |      | SW27_SW_20241<br>001<br>SW | ---- | ---- | ---- | ---- |
|-----------------------------|------------|--------------------------|-----------|------|----------------------------|------|------|------|------|
| Client sampling date / time |            |                          |           |      | 02-Oct-2024 14:00          | ---- | ---- | ---- | ---- |
| Analyte                     | CAS Number | Method/Lab/Accreditation | LOR       | Unit | TY2411215-006              | ---- | ---- | ---- | ---- |
|                             |            |                          |           |      | Result                     | ---- | ---- | ---- | ---- |
| Dissolved Metals            |            |                          |           |      |                            |      |      |      |      |
| Iron, dissolved             | 7439-89-6  | E421/TY                  | 0.010     | mg/L | 0.135                      | ---- | ---- | ---- | ---- |
| Lead, dissolved             | 7439-92-1  | E421/TY                  | 0.000050  | mg/L | <0.000050                  | ---- | ---- | ---- | ---- |
| Lithium, dissolved          | 7439-93-2  | E421/TY                  | 0.0010    | mg/L | 0.0070                     | ---- | ---- | ---- | ---- |
| Magnesium, dissolved        | 7439-95-4  | E421/TY                  | 0.0050    | mg/L | 21.0                       | ---- | ---- | ---- | ---- |
| Manganese, dissolved        | 7439-96-5  | E421/TY                  | 0.00010   | mg/L | 0.188                      | ---- | ---- | ---- | ---- |
| Mercury, dissolved          | 7439-97-6  | E509/WT                  | 0.0000050 | mg/L | <0.0000050                 | ---- | ---- | ---- | ---- |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY                  | 0.000050  | mg/L | 0.000261                   | ---- | ---- | ---- | ---- |
| Nickel, dissolved           | 7440-02-0  | E421/TY                  | 0.00050   | mg/L | 0.00095                    | ---- | ---- | ---- | ---- |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY                  | 0.050     | mg/L | 0.050                      | ---- | ---- | ---- | ---- |
| Potassium, dissolved        | 7440-09-7  | E421/TY                  | 0.050     | mg/L | 2.77                       | ---- | ---- | ---- | ---- |
| Rubidium, dissolved         | 7440-17-7  | E421/TY                  | 0.00020   | mg/L | 0.00210                    | ---- | ---- | ---- | ---- |
| Selenium, dissolved         | 7782-49-2  | E421/TY                  | 0.000050  | mg/L | 0.000137                   | ---- | ---- | ---- | ---- |
| Silicon, dissolved          | 7440-21-3  | E421/TY                  | 0.050     | mg/L | 5.22                       | ---- | ---- | ---- | ---- |
| Silver, dissolved           | 7440-22-4  | E421/TY                  | 0.000010  | mg/L | <0.000010                  | ---- | ---- | ---- | ---- |
| Sodium, dissolved           | 7440-23-5  | E421/TY                  | 0.050     | mg/L | 6.62                       | ---- | ---- | ---- | ---- |
| Strontium, dissolved        | 7440-24-6  | E421/TY                  | 0.00020   | mg/L | 0.147                      | ---- | ---- | ---- | ---- |
| Sulfur, dissolved           | 7704-34-9  | E421/TY                  | 0.50      | mg/L | 9.24                       | ---- | ---- | ---- | ---- |
| Tellurium, dissolved        | 13494-80-9 | E421/TY                  | 0.00020   | mg/L | <0.00020                   | ---- | ---- | ---- | ---- |
| Thallium, dissolved         | 7440-28-0  | E421/TY                  | 0.000010  | mg/L | <0.000010                  | ---- | ---- | ---- | ---- |
| Thorium, dissolved          | 7440-29-1  | E421/TY                  | 0.00010   | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |
| Tin, dissolved              | 7440-31-5  | E421/TY                  | 0.00010   | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID                      |            |                          |          |      | SW27_SW_20241<br>001<br>SW | ---- | ---- | ---- | ---- |
|---------------------------------------|------------|--------------------------|----------|------|----------------------------|------|------|------|------|
| Client sampling date / time           |            |                          |          |      | 02-Oct-2024 14:00          | ---- | ---- | ---- | ---- |
| Analyte                               | CAS Number | Method/Lab/Accreditation | LOR      | Unit | TY2411215-006              | ---- | ---- | ---- | ---- |
|                                       |            |                          |          |      | Result                     | ---- | ---- | ---- | ---- |
| Dissolved Metals                      |            |                          |          |      |                            |      |      |      |      |
| Titanium, dissolved                   | 7440-32-6  | E421/TY                  | 0.00030  | mg/L | 0.00039                    | ---- | ---- | ---- | ---- |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY                  | 0.00010  | mg/L | <0.00010                   | ---- | ---- | ---- | ---- |
| Uranium, dissolved                    | 7440-61-1  | E421/TY                  | 0.000010 | mg/L | 0.000486                   | ---- | ---- | ---- | ---- |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY                  | 0.00050  | mg/L | <0.00050                   | ---- | ---- | ---- | ---- |
| Zinc, dissolved                       | 7440-66-6  | E421/TY                  | 0.0010   | mg/L | 0.0135                     | ---- | ---- | ---- | ---- |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY                  | 0.00030  | mg/L | <0.00030                   | ---- | ---- | ---- | ---- |
| Dissolved mercury filtration location | ----       | EP509/WT                 | -        | -    | Field                      | ---- | ---- | ---- | ---- |
| Dissolved metals filtration location  | ----       | EP421/TY                 | -        | -    | Field                      | ---- | ---- | ---- | ---- |
| Aggregate Organics                    |            |                          |          |      |                            |      |      |      |      |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY                  | 2.0      | mg/L | <2.0                       | ---- | ---- | ---- | ---- |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY                | 10       | mg/L | 76                         | ---- | ---- | ---- | ---- |
| Oil & grease (gravimetric)            | ----       | E567-L/WT                | 1.0      | mg/L | <1.0                       | ---- | ---- | ---- | ---- |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

|                                                                                                                                                                                                                                                                                                                              |                               |                     |                 |                  |        |                                                                      |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------------------------------------------------------|--|-------------|--|--|--|--|--|--|--|--|--|--|--------------------------------|----------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 10/3/2024 10:00:00 AM<br><b>COC Number:</b> ALS-455684166 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><b>Preservatives</b> |  | SW Kit<br>N |  |  |  |  |  |  |  |  |  |  | Number of Containers<br><br>11 | Comments |
|                                                                                                                                                                                                                                                                                                                              |                               |                     |                 |                  |        | NG-SW-P-TB                                                           |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
| Sample Code                                                                                                                                                                                                                                                                                                                  | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix |                                                                      |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
| SW02_SW_20241001                                                                                                                                                                                                                                                                                                             | 2.03                          | 7.31                | 11.28           | 10/02/2024 09:30 | SW     | X                                                                    |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
| SW26_SW_20241001                                                                                                                                                                                                                                                                                                             | 4.02                          | 7.75                | 10.63           | 10/02/2024 10:00 | SW     | X                                                                    |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
| SW21A_SW_20241001                                                                                                                                                                                                                                                                                                            | 2.47                          | 7.51                | 11.94           | 10/02/2024 10:25 | SW     | X                                                                    |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
| FB_SW_20241001                                                                                                                                                                                                                                                                                                               |                               |                     |                 | 10/02/2024 12:00 | SW     | X                                                                    |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
| SW06_SW_20241001                                                                                                                                                                                                                                                                                                             | 0.57                          | 7.22                | 12.76           | 10/02/2024 12:00 | SW     | X                                                                    |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |
| SW27_SW_20241001                                                                                                                                                                                                                                                                                                             | 0.57                          | 7.22                | 12.76           | 10/02/2024 14:00 | SW     | X                                                                    |  |             |  |  |  |  |  |  |  |  |  |  |                                |          |

TY24 11215

Environmental Division  
 Thunder Bay  
 Work Order Reference  
**TY2411215**  
  
 Telephone : +1 807 623 6483

|                                      |  |                                                                                     |  |                         |  |                                                              |  |
|--------------------------------------|--|-------------------------------------------------------------------------------------|--|-------------------------|--|--------------------------------------------------------------|--|
| <b>Signature</b><br><b>Data/Time</b> |  | <b>Shipping Details</b>                                                             |  | <b>ATTN</b>             |  | <b>Special Instructions:</b>                                 |  |
| <b>Shipped by</b>                    |  | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no                       |  | 695037 73<br>@maribulm  |  | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com |  |
| <b>Received by</b>                   |  | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |  | 3308392043<br>ice rocks |  | <b>Email Report to:</b><br>rainyriver.labresults@newgold.com |  |

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

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

| Signature   | Date/Time             | Shipping Details                                               | ATTN | Special Instructions:                                                                                                                                                                                                           |
|-------------|-----------------------|----------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shipped by  | 10/3/2024 10:00:00 AM | Method of Shipment: Courier<br>On Ice: yes / no                |      | Email Invoice to:<br><a href="mailto:rainyriver.accounts1@newgold.com">rainyriver.accounts1@newgold.com</a><br><br>Email Report to:<br><a href="mailto:rainyriver.labresults@newgold.com">rainyriver.labresults@newgold.com</a> |
| Received by |                       | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      |                                                                                                                                                                                                                                 |



# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                          |                                     |                                            |
|----------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|
| Priority/Emergency Service Requested         | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Time Sensitive Hold Time                     | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Client:                                      | New hold - Rainy River                   |                                     |                                            |
| SAMPLE RECEIPT INFORMATION                   |                                          |                                     |                                            |
| Mode of Delivery:                            | <input checked="" type="radio"/> Courier | Drop Off                            |                                            |
| Courier                                      | Mainline                                 |                                     |                                            |
| Waybill Number                               | <del>6430344</del> 3303912043            |                                     |                                            |
| Temperature                                  | 6.9, 8.0, 3.7, 7.3                       | Cooler Count                        | 5                                          |
| Cooling Method                               | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                          |                                     |                                            |
| Matrix:                                      | <input checked="" type="radio"/> Water   | Soil                                | Air                                        |
|                                              |                                          | Biota                               | Other                                      |
| DW Schedule 24 Bottles Correct?              |                                          | Yes                                 | No                                         |
| DW Metals pH Check <2                        |                                          | Yes                                 | No                                         |
| Regulation Circled, Works # present          | Yes                                      | No - Reject?                        |                                            |
| # of Bottles:                                | 11                                       | Sample Count                        | 8                                          |
| Green/white                                  | BR, SBOD                                 |                                     |                                            |
| Purple/white                                 | SNUR, BTOC, BDOC                         |                                     |                                            |
| Warm red/white                               | BT-M, BDM                                |                                     |                                            |
| Yellow/black                                 | BT-Hg, BDTg, 2x50mg                      |                                     |                                            |
| Light blue/white                             |                                          |                                     |                                            |
| Orange/black                                 |                                          |                                     |                                            |
| Others (detail)                              | B CYANIDE                                |                                     |                                            |
| Comments on Samples and Bottles:             |                                          |                                     |                                            |
| Samples Requiring Preservation or Filtering: |                                          |                                     |                                            |
| Layout Staff Initials                        | AC                                       |                                     |                                            |
| Date and Time of Layout                      | 06-04-24 / 9:17                          |                                     |                                            |

| ACCOUNT INFO VERIFICATION                                        |                                      |                                     |
|------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| Priority/Emergency Service Requested                             | YES                                  | <input checked="" type="radio"/> NO |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |                                      |                                     |
| Client                                                           | Work Contact                         | Quote                               |
| RECEIPT DETAIL                                                   |                                      |                                     |
| Project                                                          | PO                                   | Site/LSD                            |
| Overall Description Entered                                      | Yes                                  | <input checked="" type="radio"/> NA |
| Received date/time as per COC                                    | <input checked="" type="radio"/>     |                                     |
| Recipients match CoC or Sample Remarks                           | <input checked="" type="radio"/> Yes | No                                  |
| Billing Instruction added to remarks                             | <input checked="" type="radio"/> Yes | NA                                  |
| Sample Remarks/Specification Doc checked                         | <input checked="" type="radio"/>     |                                     |
| Submission Issues communicated                                   | Yes                                  | <input checked="" type="radio"/> NA |
| Sample Info communicated via Remarks                             | Yes                                  | <input checked="" type="radio"/> NA |
| VERIFICATION CHECKLIST                                           |                                      |                                     |
| Planned Event Submission                                         | <input checked="" type="radio"/> Yes | No                                  |
| Sample Name entered as per CoC                                   | <input checked="" type="radio"/>     |                                     |
| Sampling Date and time entered as per CoC                        | <input checked="" type="radio"/>     |                                     |
| Containers selected in layout order                              | <input checked="" type="radio"/>     |                                     |
| Sales items entered from QUOTE ONLY (and/or verified as correct) | <input checked="" type="radio"/>     |                                     |
| Field Data/EC298A removed if not on COC                          | Yes                                  | <input checked="" type="radio"/> NA |
| Bottle Allocation Verified                                       | <input checked="" type="radio"/>     |                                     |
| Guideline added or auto-allocated                                | <input checked="" type="radio"/>     |                                     |
| Due dates updated                                                | <input checked="" type="radio"/>     |                                     |
| VALIDATION                                                       |                                      |                                     |
| Validation errors resolved?                                      | <input checked="" type="radio"/> Yes | No                                  |
| Internal Sublet CoC created                                      | <input checked="" type="radio"/> Yes | NA                                  |
| Login Comments:                                                  |                                      |                                     |
| Login Staff Initials:                                            | AC                                   |                                     |

## CERTIFICATE OF ANALYSIS

|                                |                                                      |                                |                                   |
|--------------------------------|------------------------------------------------------|--------------------------------|-----------------------------------|
| <b>Work Order</b>              | : <b>TY2412886</b>                                   | <b>Laboratory</b>              | : ALS Environmental - Thunder Bay |
| <b>Client</b>                  | : <b>New Gold Inc. (Rainy River)</b>                 | <b>Account Manager</b>         | : Christine Paradis               |
| <b>Contact</b>                 | : Garnet.Cornell@newgold.com Garnet Cornell          | <b>Address</b>                 | : 1081 Barton Street              |
| <b>Address</b>                 | : 24 Marr Rd.<br>Barwick Ontario Canada P0W 1A0      |                                | : Thunder Bay ON Canada P7B 5N3   |
| <b>Telephone</b>               | : 807 234 8170                                       | <b>Telephone</b>               | : +1 807 623 6463                 |
| <b>Project</b>                 | : Surface Water                                      | <b>Date Samples Received</b>   | : 08-Nov-2024 09:22               |
| <b>PO</b>                      | : 4700003796                                         | <b>Date Analysis Commenced</b> | : 08-Nov-2024                     |
| <b>C-O-C number</b>            | : ----                                               | <b>Issue Date</b>              | : 05-Dec-2024 16:38               |
| <b>Sampler</b>                 | : ----                                               |                                |                                   |
| <b>Site</b>                    | : New Gold Inc. (Rainy River)                        |                                |                                   |
| <b>Quote number</b>            | : New Gold Rainy River Project - Pick a Project 2024 |                                |                                   |
| <b>No. of samples received</b> | : 24                                                 |                                |                                   |
| <b>No. of samples analysed</b> | : 24                                                 |                                |                                   |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

## Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i>   | <i>Position</i>                             | <i>Laboratory Department</i>                     |
|----------------------|---------------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics                    | Metals, Thunder Bay, Ontario                     |
| Cassandra Grzelewski | Team Leader - Inorganics                    | Inorganics, Thunder Bay, Ontario                 |
| Jocelyn Kennedy      | Department Manager - Semi-Volatile Organics | Organics, Waterloo, Ontario                      |
| Julie Ruoho          | Teamleader Wet Chem                         | Inorganics, Thunder Bay, Ontario                 |
| Nik Perkio           | Senior Analyst                              | Metals, Waterloo, Ontario                        |
| Nik Perkio           | Senior Analyst                              | Inorganics, Waterloo, Ontario                    |
| Raymond Lin          | Analyst                                     | Metals, Burnaby, British Columbia                |
| Rhiannon Scheffee    | Project Manager                             | Metals, Thunder Bay, Ontario                     |
| Taelur Kachur        | Laboratory Analyst                          | Administration, Thunder Bay, Ontario             |
| Taelur Kachur        | Account Manager                             | External Subcontracting, Saskatoon, Saskatchewan |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| mg/L     | milligrams per litre            |
| pH units | pH units                        |
| °C       | degrees celsius                 |
| NTU      | nephelometric turbidity units   |
| µS/cm    | microsiemens per centimetre     |
| CU       | colour units (1 cu = 1 mg/l pt) |
| -        | no units                        |
| µg/L     | micrograms per litre            |
| Bq/L     | becquerels per litre            |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Qualifiers

| Qualifier | Description                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                                                                                 |
| DLDS      | Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.                                                                   |
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).                                                              |
| DTMF      | Dissolved concentration exceeds total for field-filtered metals sample. Metallic contaminants may have been introduced to dissolved sample during field filtration. |
| RRV       | Reported result verified by repeat analysis.                                                                                                                        |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                             |            |              |        |          | Client sample ID | SW16_SW_20241<br>105<br>SW | SW17_SW_202411<br>05<br>SW | SW02_SW_202411<br>05<br>SW | 1 - TEEPLE<br>CULVERT_MM_202<br>41105<br>SW | SW20_SW_202411<br>05<br>SW |
|---------------------------------------------|------------|--------------|--------|----------|------------------|----------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time                 |            |              |        |          |                  | 05-Nov-2024 09:00          | 05-Nov-2024 10:00          | 05-Nov-2024 10:30          | 05-Nov-2024 11:00                           | 05-Nov-2024 11:10          |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2412886-001              | TY2412886-002              | TY2412886-003              | TY2412886-004                               | TY2412886-005              |
|                                             |            |              |        |          |                  | Result                     | Result                     | Result                     | Result                                      | Result                     |
| Field Tests                                 |            |              |        |          |                  |                            |                            |                            |                                             |                            |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     |                  | 10.65                      | 8.45                       | 5.83                       | ----                                        | 2.01                       |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units |                  | 6.50                       | 6.54                       | 6.82                       | ----                                        | 7.10                       |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       |                  | 7.90                       | 7.29                       | 5.36                       | ----                                        | 5.53                       |
| Physical Tests                              |            |              |        |          |                  |                            |                            |                            |                                             |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     |                  | 3.6                        | 3.2                        | 5.2                        | ----                                        | 4.8                        |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       |                  | 33.4                       | 40.9                       | 121                        | ----                                        | 78.4                       |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    |                  | 76.6                       | 95.0                       | 182                        | ----                                        | 342                        |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     |                  | 31.4                       | 39.7                       | 99.0                       | ----                                        | 147                        |
| pH                                          | ----       | E108/TY      | 0.10   | pH units |                  | 7.45                       | 7.50                       | 7.79                       | ----                                        | 7.98                       |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     |                  | 52                         | 66                         | 150                        | ----                                        | 224                        |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     |                  | 5.8                        | 7.0                        | <3.0                       | ----                                        | <3.0                       |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      |                  | 6.15                       | 8.11                       | 2.14                       | ----                                        | 3.33                       |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     |                  | 30.2                       | 39.2                       | 97.1                       | ----                                        | 144                        |
| Anions and Nutrients                        |            |              |        |          |                  |                            |                            |                            |                                             |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | 0.0098 <sup>&lt;T</sup>    | 0.0064 <sup>&lt;T</sup>    | 0.0275 <sup>&lt;T</sup>    | ----                                        | 0.0228 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010                    | <0.0010                    | <0.0010                    | ----                                        | <0.0010                    |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 2.54                       | 2.59                       | 0.46                       | ----                                        | 27.8                       |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.030                      | 0.030                      | 0.027                      | ----                                        | 0.036                      |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     |                  | 0.459                      | 0.438                      | 0.962                      | ----                                        | 0.901                      |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | <0.020                     | <0.020                     | <0.020                     | ----                                        | <0.020                     |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

Client sample ID

|                                          |            |             |           |      | SW16_SW_20241<br>105<br>SW | SW17_SW_202411<br>05<br>SW | SW02_SW_202411<br>05<br>SW | 1 - TEEPLE<br>CULVERT_MM_202<br>41105<br>SW | SW20_SW_202411<br>05<br>SW |
|------------------------------------------|------------|-------------|-----------|------|----------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time              |            |             |           |      | 05-Nov-2024 09:00          | 05-Nov-2024 10:00          | 05-Nov-2024 10:30          | 05-Nov-2024 11:00                           | 05-Nov-2024 11:10          |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit | TY2412886-001              | TY2412886-002              | TY2412886-003              | TY2412886-004                               | TY2412886-005              |
|                                          |            |             |           |      | Result                     | Result                     | Result                     | Result                                      | Result                     |
| Anions and Nutrients                     |            |             |           |      |                            |                            |                            |                                             |                            |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY | 0.010     | mg/L | <0.010                     | <0.010                     | <0.010                     | ----                                        | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L | <0.0010                    | <0.0010                    | <0.0010                    | ----                                        | 0.0047                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | 3.99                       | 4.78                       | <0.30                      | ----                                        | 2.02                       |
| Cyanides                                 |            |             |           |      |                            |                            |                            |                                             |                            |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L | <0.0020                    | <0.0020                    | <0.0020                    | ----                                        | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L | <0.0020                    | <0.0020                    | <0.0020                    | ----                                        | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L | <0.0020                    | <0.0020                    | <0.0020                    | ----                                        | <0.0020                    |
| Organic / Inorganic Carbon               |            |             |           |      |                            |                            |                            |                                             |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L | 11.0                       | 12.1                       | 32.5                       | ----                                        | 25.0                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L | 11.0                       | 12.1                       | 30.2                       | ----                                        | 23.8                       |
| Total Metals                             |            |             |           |      |                            |                            |                            |                                             |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L | 0.135                      | 0.153                      | 0.0406                     | ----                                        | 0.0607                     |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L | <0.00010                   | <0.00010                   | <0.00010                   | ----                                        | <0.00010                   |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L | 0.00051 <sup>&lt;T</sup>   | 0.00058 <sup>&lt;T</sup>   | 0.00074 <sup>&lt;T</sup>   | ----                                        | 0.00069 <sup>&lt;T</sup>   |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L | 0.00918                    | 0.0109                     | 0.0135                     | ----                                        | 0.0144                     |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L | <0.000020                  | <0.000020                  | <0.000020                  | ----                                        | <0.000020                  |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L | <0.000050                  | <0.000050                  | <0.000050                  | ----                                        | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L | <0.010                     | <0.010                     | <0.010                     | ----                                        | 0.015 <sup>&lt;T</sup>     |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L | 0.0000088 <sup>&lt;T</sup> | 0.0000117 <sup>&lt;T</sup> | <0.0000050                 | ----                                        | <0.0000050                 |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L | 8.70                       | 11.2                       | 24.0                       | ----                                        | 36.8                       |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID  | SW16_SW_20241<br>105<br>SW | SW17_SW_202411<br>05<br>SW | SW02_SW_202411<br>05<br>SW | 1 - TEEPLE<br>CULVERT_MM_202<br>41105<br>SW | SW20_SW_202411<br>05<br>SW |
|----------------------------------------------|------------|------------|-----------|------|-------------------|----------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 05-Nov-2024 09:00 | 05-Nov-2024 10:00          | 05-Nov-2024 10:30          | 05-Nov-2024 11:00          | 05-Nov-2024 11:10                           |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2412886-001     | TY2412886-002              | TY2412886-003              | TY2412886-004              | TY2412886-005                               |                            |
|                                              |            |            |           |      | Result            | Result                     | Result                     | Result                     | Result                                      |                            |
| Total Metals                                 |            |            |           |      |                   |                            |                            |                            |                                             |                            |
| Cesium, total                                | 7440-46-2  | E420/TY    | 0.000010  | mg/L | 0.000024          | 0.000024                   | <0.000010                  | ----                       | <0.000010                                   |                            |
| Chromium, total                              | 7440-47-3  | E420/TY    | 0.00050   | mg/L | <0.00050          | 0.00053 <T                 | <0.00050                   | ----                       | <0.00050                                    |                            |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | <0.00010          | 0.00010                    | 0.00012 <T                 | ----                       | 0.00015 <T                                  |                            |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00111 <T        | 0.00112 <T                 | <0.00050                   | ----                       | <0.00050                                    |                            |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.171             | 0.218                      | 0.253                      | ----                       | 0.268                                       |                            |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000101 <T       | 0.00108 <T                 | <0.000050                  | ----                       | <0.000050                                   |                            |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | <0.0010           | 0.0012 <T                  | 0.0018 <T                  | ----                       | 0.0056 <T                                   |                            |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 2.50              | 3.29                       | 9.27                       | ----                       | 14.3                                        |                            |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0105            | 0.0174                     | 0.0313                     | ----                       | 0.0442                                      |                            |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050        | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                                  |                            |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000140 <T       | 0.000180 <T                | <0.000050                  | ----                       | 0.000240 <T                                 |                            |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00071 <T        | 0.00071 <T                 | <0.00050                   | ----                       | 0.00109 <T                                  |                            |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050            | <0.050                     | <0.050                     | ----                       | <0.050                                      |                            |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 0.790             | 0.907                      | 1.48                       | ----                       | 1.90                                        |                            |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00192           | 0.00211                    | 0.00236                    | ----                       | 0.00235                                     |                            |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000080 <T       | 0.000082 <T                | 0.000131 <T                | ----                       | 0.000147 <T                                 |                            |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 1.69              | 1.86                       | 6.94                       | ----                       | 4.67                                        |                            |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010         | <0.000010                  | <0.000010                  | ----                       | <0.000010                                   |                            |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 2.96              | 3.77                       | 0.950                      | ----                       | 11.9                                        |                            |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.0232            | 0.0261                     | 0.0423                     | ----                       | 0.0826                                      |                            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID          | SW16_SW_20241<br>105<br>SW | SW17_SW_202411<br>05<br>SW | SW02_SW_202411<br>05<br>SW | 1 - TEEPLE<br>CULVERT_MM_202<br>41105<br>SW | SW20_SW_202411<br>05<br>SW |
|----------------------------------------------|------------|------------|-----------|------|---------------------------|----------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time                  |            |            |           |      | 05-Nov-2024 09:00         | 05-Nov-2024 10:00          | 05-Nov-2024 10:30          | 05-Nov-2024 11:00          | 05-Nov-2024 11:10                           |                            |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2412886-001             | TY2412886-002              | TY2412886-003              | TY2412886-004              | TY2412886-005                               |                            |
|                                              |            |            |           |      | Result                    | Result                     | Result                     | Result                     | Result                                      |                            |
| Total Metals                                 |            |            |           |      |                           |                            |                            |                            |                                             |                            |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 1.38                      | 1.70                       | <0.50                      | ----                       | 1.08                                        |                            |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | ----                       | <0.00020                                    |                            |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                 | <0.000010                  | <0.000010                  | ----                       | <0.000010                                   |                            |
| Thorium, total                               | 7440-29-1  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | ----                       | <0.00010                                    |                            |
| Tin, total                                   | 7440-31-5  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | ----                       | <0.00010                                    |                            |
| Titanium, total                              | 7440-32-6  | E420/TY    | 0.00030   | mg/L | 0.00424                   | <0.00615 <sup>DLM</sup>    | 0.00095                    | ----                       | <0.00312 <sup>DLM</sup>                     |                            |
| Tungsten, total                              | 7440-33-7  | E420/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | ----                       | <0.00010                                    |                            |
| Uranium, total                               | 7440-61-1  | E420/TY    | 0.000010  | mg/L | 0.000099 <sup>&lt;T</sup> | 0.000099 <sup>&lt;T</sup>  | 0.000067 <sup>&lt;T</sup>  | ----                       | 0.000408 <sup>&lt;T</sup>                   |                            |
| Vanadium, total                              | 7440-62-2  | E420/TY    | 0.00050   | mg/L | 0.00085                   | 0.00085                    | <0.00050                   | ----                       | 0.00055                                     |                            |
| Zinc, total                                  | 7440-66-6  | E420/TY    | 0.0030    | mg/L | <0.0030                   | <0.0030                    | <0.0030                    | ----                       | <0.0030                                     |                            |
| Zirconium, total                             | 7440-67-7  | E420/TY    | 0.00020   | mg/L | <0.00020                  | <0.00020                   | <0.00020                   | ----                       | 0.00022                                     |                            |
| Dissolved Metals                             |            |            |           |      |                           |                            |                            |                            |                                             |                            |
| Aluminum, dissolved                          | 7429-90-5  | E421/TY    | 0.0010    | mg/L | 0.0867                    | 0.114                      | 0.0347                     | ----                       | 0.0568                                      |                            |
| Antimony, dissolved                          | 7440-36-0  | E421/TY    | 0.00010   | mg/L | <0.00010                  | <0.00010                   | <0.00010                   | ----                       | <0.00010                                    |                            |
| Arsenic, dissolved                           | 7440-38-2  | E421/TY    | 0.00010   | mg/L | 0.00046                   | 0.00052                    | 0.00074                    | ----                       | 0.00071                                     |                            |
| Barium, dissolved                            | 7440-39-3  | E421/TY    | 0.00010   | mg/L | 0.00926                   | 0.0105                     | 0.0132                     | ----                       | 0.0136                                      |                            |
| Beryllium, dissolved                         | 7440-41-7  | E421/TY    | 0.000020  | mg/L | <0.000020                 | <0.000020                  | <0.000020                  | ----                       | <0.000020                                   |                            |
| Bismuth, dissolved                           | 7440-69-9  | E421/TY    | 0.000050  | mg/L | <0.000050                 | <0.000050                  | <0.000050                  | ----                       | <0.000050                                   |                            |
| Boron, dissolved                             | 7440-42-8  | E421/TY    | 0.010     | mg/L | <0.010                    | <0.010                     | <0.010                     | ----                       | 0.012                                       |                            |
| Cadmium, dissolved                           | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | 0.0000100                 | 0.0000160                  | <0.0000050                 | ----                       | <0.0000050                                  |                            |





## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

Client sample ID

|                             |            |            |           |      | SW16_SW_20241<br>105<br>SW | SW17_SW_202411<br>05<br>SW | SW02_SW_202411<br>05<br>SW | 1 - TEEPLE<br>CULVERT_MM_202<br>41105<br>SW | SW20_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|----------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time |            |            |           |      | 05-Nov-2024 09:00          | 05-Nov-2024 10:00          | 05-Nov-2024 10:30          | 05-Nov-2024 11:00                           | 05-Nov-2024 11:10          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | TY2412886-001              | TY2412886-002              | TY2412886-003              | TY2412886-004                               | TY2412886-005              |
|                             |            |            |           |      | Result                     | Result                     | Result                     | Result                                      | Result                     |
| Dissolved Metals            |            |            |           |      |                            |                            |                            |                                             |                            |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | 8.18                       | 10.4                       | 23.0                       | ----                                        | 34.5                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | 0.000012                   | 0.000017                   | <0.000010                  | ----                                        | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | <0.00050                   | <0.00050                   | <0.00050                   | ----                                        | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | <0.00010                   | <0.00010                   | 0.00012                    | ----                                        | 0.00015                    |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | 0.00101                    | 0.00106                    | <0.00020                   | ----                                        | 0.00031                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | 0.115                      | 0.148                      | 0.240                      | ----                                        | 0.260                      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | 0.000096                   | 0.000117                   | <0.000050                  | ----                                        | <0.000050                  |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L | 0.0011                     | 0.0014                     | 0.0018                     | ----                                        | 0.0048                     |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L | 2.66                       | 3.33                       | 10.1                       | ----                                        | 14.8                       |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L | 0.0104                     | 0.0172                     | 0.0317                     | ----                                        | 0.0436                     |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                                  | <0.0000050                 |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L | 0.000126                   | 0.000166                   | <0.000050                  | ----                                        | 0.000207                   |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L | 0.00066                    | 0.00075                    | <0.00050                   | ----                                        | 0.00105                    |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L | <0.050                     | <0.050                     | <0.050                     | ----                                        | <0.050                     |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L | 0.807                      | 0.875                      | 1.49                       | ----                                        | 1.85                       |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L | 0.00190                    | 0.00208                    | 0.00230                    | ----                                        | 0.00227                    |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L | 0.000093                   | 0.000108                   | 0.000145                   | ----                                        | 0.000171                   |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L | 1.55                       | 1.57                       | 6.58                       | ----                                        | 4.44                       |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L | <0.000010                  | <0.000010                  | <0.000010                  | ----                                        | <0.000010                  |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L | 3.38                       | 4.14                       | 0.964                      | ----                                        | 13.2                       |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

Client sample ID

|                                       |            |            |          |      | SW16_SW_20241<br>105<br>SW | SW17_SW_202411<br>05<br>SW | SW02_SW_202411<br>05<br>SW | 1 - TEEPLE<br>CULVERT_MM_202<br>41105<br>SW | SW20_SW_202411<br>05<br>SW |
|---------------------------------------|------------|------------|----------|------|----------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
| Client sampling date / time           |            |            |          |      | 05-Nov-2024 09:00          | 05-Nov-2024 10:00          | 05-Nov-2024 10:30          | 05-Nov-2024 11:00                           | 05-Nov-2024 11:10          |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit | TY2412886-001              | TY2412886-002              | TY2412886-003              | TY2412886-004                               | TY2412886-005              |
|                                       |            |            |          |      | Result                     | Result                     | Result                     | Result                                      | Result                     |
| <b>Dissolved Metals</b>               |            |            |          |      |                            |                            |                            |                                             |                            |
| Strontium, dissolved                  | 7440-24-6  | E421/TY    | 0.00020  | mg/L | 0.0218                     | 0.0249                     | 0.0395                     | ----                                        | 0.0794                     |
| Sulfur, dissolved                     | 7704-34-9  | E421/TY    | 0.50     | mg/L | 1.44                       | 1.66                       | <0.50                      | ----                                        | 1.02                       |
| Tellurium, dissolved                  | 13494-80-9 | E421/TY    | 0.00020  | mg/L | <0.00020                   | <0.00020                   | <0.00020                   | ----                                        | <0.00020                   |
| Thallium, dissolved                   | 7440-28-0  | E421/TY    | 0.000010 | mg/L | <0.000010                  | <0.000010                  | <0.000010                  | ----                                        | <0.000010                  |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010  | mg/L | <0.00010                   | <0.00010                   | <0.00010                   | ----                                        | <0.00010                   |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L | 0.00174 <sup>DTMF</sup>    | <0.00010                   | <0.00010                   | ----                                        | <0.00010                   |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L | 0.00370                    | 0.00465                    | 0.00097                    | ----                                        | <0.00258 <sup>DLM</sup>    |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L | <0.00010                   | <0.00010                   | <0.00010                   | ----                                        | <0.00010                   |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L | 0.000093                   | 0.000100                   | 0.000063                   | ----                                        | 0.000372                   |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L | 0.00061                    | 0.00065                    | <0.00050                   | ----                                        | <0.00050                   |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L | 0.0025                     | 0.0034                     | 0.0012                     | ----                                        | <0.0010                    |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L | <0.00030                   | <0.00030                   | <0.00030                   | ----                                        | <0.00030                   |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    | Field                      | Field                      | Field                      | Laboratory                                  | Field                      |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    | Field                      | Field                      | Field                      | ----                                        | Field                      |
| <b>Speciated Metals</b>               |            |            |          |      |                            |                            |                            |                                             |                            |
| Methylmercury (as MeHg), total        | 22967-92-6 | E536/VA    | 0.000020 | µg/L | ----                       | ----                       | ----                       | 0.000241                                    | 0.000190                   |
| <b>Aggregate Organics</b>             |            |            |          |      |                            |                            |                            |                                             |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L | <2.0                       | <2.0                       | <2.0                       | ----                                        | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L | 38                         | 79                         | 80                         | ----                                        | 66                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L | <1.0                       | <1.0                       | <1.0                       | ----                                        | <1.0                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Surface Water  
(Matrix: Water)

Client sample ID

|                                             |            |              |        |          | SW20_SW_20241<br>105<br>SW | SW28A_SW_20241<br>105<br>SW | SW06_SW_202411<br>05<br>SW | FB_SW_20241105<br>SW | SW10_SW_202411<br>05<br>SW |
|---------------------------------------------|------------|--------------|--------|----------|----------------------------|-----------------------------|----------------------------|----------------------|----------------------------|
| Client sampling date / time                 |            |              |        |          | 05-Nov-2024 11:10          | 05-Nov-2024 11:20           | 05-Nov-2024 11:40          | 05-Nov-2024 12:00    | 05-Nov-2024 12:00          |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     | TY2412886-006              | TY2412886-007               | TY2412886-008              | TY2412886-009        | TY2412886-010              |
|                                             |            |              |        |          | Result                     | Result                      | Result                     | Result               | Result                     |
| Field Tests                                 |            |              |        |          |                            |                             |                            |                      |                            |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     | ----                       | 10.9                        | 9.84                       | ----                 | 9.84                       |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units | ----                       | 7.70                        | 7.56                       | ----                 | 7.56                       |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       | ----                       | 5.52                        | 5.31                       | ----                 | 5.31                       |
| Physical Tests                              |            |              |        |          |                            |                             |                            |                      |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     | ----                       | 2.3                         | 3.4                        | 2.3                  | 3.6                        |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       | ----                       | 63.3                        | 112                        | <2.0                 | 110                        |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    | ----                       | 236                         | 305                        | <1.0                 | 305                        |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     | ----                       | 122                         | 137                        | <0.50                | 141                        |
| pH                                          | ----       | E108/TY      | 0.10   | pH units | ----                       | 8.07                        | 8.08                       | 5.82                 | 8.00                       |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     | ----                       | 156                         | 204                        | <10                  | 209                        |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     | ----                       | 5.2                         | <3.0                       | <3.0                 | <3.0                       |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      | ----                       | 6.26                        | 4.32                       | <0.10                | 3.84                       |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     | ----                       | 126                         | 138                        | <2.0                 | 135                        |
| Anions and Nutrients                        |            |              |        |          |                            |                             |                            |                      |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | ----                       | 0.0138 <sup>&lt;T</sup>     | 0.0116 <sup>&lt;T</sup>    | <0.0050              | 0.0117 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | ----                       | <0.0010                     | <0.0010                    | ----                 | <0.0010                    |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | ----                       | 1.90                        | 17.3                       | <0.10                | 17.0                       |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | ----                       | 0.035                       | 0.031                      | <0.020               | 0.036                      |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     | ----                       | 0.910                       | 0.926                      | <0.050               | 0.866                      |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | ----                       | <0.020                      | <0.020                     | <0.020               | <0.020                     |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |             |           |      | Client sample ID | SW20_SW_20241<br>105<br>SW | SW28A_SW_20241<br>105<br>SW | SW06_SW_202411<br>05<br>SW | FB_SW_20241105<br>SW     | SW10_SW_202411<br>05<br>SW |
|------------------------------------------|------------|-------------|-----------|------|------------------|----------------------------|-----------------------------|----------------------------|--------------------------|----------------------------|
| Client sampling date / time              |            |             |           |      |                  | 05-Nov-2024 11:10          | 05-Nov-2024 11:20           | 05-Nov-2024 11:40          | 05-Nov-2024 12:00        | 05-Nov-2024 12:00          |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit |                  | TY2412886-006              | TY2412886-007               | TY2412886-008              | TY2412886-009            | TY2412886-010              |
|                                          |            |             |           |      |                  | Result                     | Result                      | Result                     | Result                   | Result                     |
| Anions and Nutrients                     |            |             |           |      |                  |                            |                             |                            |                          |                            |
| Nitrite (as N)                           | 14797-65-0 | E235.NO2/TY | 0.010     | mg/L | ----             | <0.010                     | <0.010                      | <0.010                     | <0.010                   | <0.010                     |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L | ----             | 0.0018                     | 0.0082                      | <0.0010                    | 0.0085                   |                            |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | ----             | 0.59                       | 3.08                        | <0.30                      | 3.03                     |                            |
| Cyanides                                 |            |             |           |      |                  |                            |                             |                            |                          |                            |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L | ----             | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L | ----             | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L | ----             | <0.0020                    | <0.0020                     | <0.0020                    | <0.0020                  | <0.0020                    |
| Organic / Inorganic Carbon               |            |             |           |      |                  |                            |                             |                            |                          |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L | ----             | 24.3                       | 28.8                        | <0.50                      | 29.0                     |                            |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L | ----             | 23.4                       | 26.8                        | <0.50                      | 28.3                     |                            |
| Total Metals                             |            |             |           |      |                  |                            |                             |                            |                          |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L | ----             | 0.149                      | 0.106                       | <0.0030                    | 0.105                    |                            |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010                 |                            |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L | ----             | 0.00093 <sup>&lt;T</sup>   | 0.00081 <sup>&lt;T</sup>    | <0.00010                   | 0.00086 <sup>&lt;T</sup> |                            |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L | ----             | 0.0162                     | 0.0149                      | 0.00036 <sup>RRV</sup>     | 0.0144                   |                            |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L | ----             | <0.000020                  | <0.000020                   | <0.000020                  | <0.000020                |                            |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L | ----             | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050                |                            |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L | ----             | 0.011 <sup>&lt;T</sup>     | 0.017 <sup>&lt;T</sup>      | <0.010                     | 0.015 <sup>&lt;T</sup>   |                            |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L | ----             | 0.0000078 <sup>&lt;T</sup> | <0.0000050                  | <0.0000050                 | <0.0000050               |                            |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L | ----             | 30.1                       | 33.8                        | <0.050                     | 33.6                     |                            |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L | ----             | 0.000025                   | 0.000011                    | <0.000010                  | 0.000012                 |                            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW20_SW_20241<br>105<br>SW | SW28A_SW_20241<br>105<br>SW | SW06_SW_202411<br>05<br>SW | FB_SW_20241105<br>SW | SW10_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|-----------------------------|----------------------------|----------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 11:10          | 05-Nov-2024 11:20           | 05-Nov-2024 11:40          | 05-Nov-2024 12:00    | 05-Nov-2024 12:00          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-006              | TY2412886-007               | TY2412886-008              | TY2412886-009        | TY2412886-010              |
|                             |            |            |           |      |                  | Result                     | Result                      | Result                     | Result               | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                            |                             |                            |                      |                            |
| Chromium, total             | 7440-47-3  | E420/TY    | 0.00050   | mg/L | ----             | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050             | <0.00050                   |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L | ----             | 0.00040 <T                 | 0.00017 <T                  | <0.00010                   | 0.00015 <T           |                            |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L | ----             | 0.00070 <T                 | 0.00053 <T                  | 0.00099 <T, RRV            | 0.00055 <T           |                            |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L | ----             | 0.434                      | 0.308                       | <0.010                     | 0.331                |                            |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L | ----             | 0.000141 <T                | 0.000058 <T                 | <0.000050                  | 0.000058 <T          |                            |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L | ----             | 0.0038 <T                  | 0.0064 <T                   | <0.0010                    | 0.0055 <T            |                            |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L | ----             | 12.3                       | 13.5                        | <0.0050                    | 14.3                 |                            |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L | ----             | 0.264                      | 0.0198                      | <0.00010                   | 0.0198               |                            |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | ----             | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050           |                            |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L | ----             | 0.000427 <T                | 0.000315 <T                 | <0.000050                  | 0.000291 <T          |                            |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L | ----             | 0.00094 <T                 | 0.00134 <T                  | <0.00050                   | 0.00129 <T           |                            |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L | ----             | <0.050                     | <0.050                      | <0.050                     | <0.050               |                            |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L | ----             | 1.85                       | 1.93                        | <0.050                     | 1.91                 |                            |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L | ----             | 0.00256                    | 0.00206                     | <0.00020                   | 0.00202              |                            |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L | ----             | 0.000122 <T                | 0.000138 <T                 | <0.000050                  | 0.000117 <T          |                            |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L | ----             | 3.55                       | 4.56                        | <0.10                      | 4.58                 |                            |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L | ----             | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010            |                            |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L | ----             | 1.22                       | 7.65                        | 0.125 RRV                  | 8.09                 |                            |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L | ----             | 0.0544                     | 0.0904                      | <0.00020                   | 0.0901               |                            |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L | ----             | <0.50                      | 1.44                        | <0.50                      | 1.40                 |                            |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L | ----             | <0.00020                   | <0.00020                    | <0.00020                   | <0.00020             |                            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW20_SW_20241<br>105<br>SW | SW28A_SW_20241<br>105<br>SW | SW06_SW_202411<br>05<br>SW | FB_SW_20241105<br>SW | SW10_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|-----------------------------|----------------------------|----------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 11:10          | 05-Nov-2024 11:20           | 05-Nov-2024 11:40          | 05-Nov-2024 12:00    | 05-Nov-2024 12:00          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-006              | TY2412886-007               | TY2412886-008              | TY2412886-009        | TY2412886-010              |
|                             |            |            |           |      |                  | Result                     | Result                      | Result                     | Result               | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                            |                             |                            |                      |                            |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L | ----             | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010            | <0.000010                  |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010             | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010             | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L | ----             | 0.00451                    | 0.00327                     | <0.00030                   | <0.00477             | <sup>DLM</sup>             |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010             | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L | ----             | 0.000592 <sup>&lt;T</sup>  | 0.000567 <sup>&lt;T</sup>   | <0.000010                  | 0.000543             | <sup>&lt;T</sup>           |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L | ----             | 0.00095                    | 0.00078                     | <0.00050                   | 0.00078              |                            |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L | ----             | <0.0030                    | <0.0030                     | <0.0030                    | <0.0030              | <0.0030                    |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L | ----             | <0.00020                   | 0.00029                     | <0.00020                   | 0.00028              |                            |
| <b>Dissolved Metals</b>     |            |            |           |      |                  |                            |                             |                            |                      |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L | ----             | 0.0632                     | 0.0786                      | <0.0010                    | 0.0749               |                            |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010             | <0.00010                   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L | ----             | 0.00083                    | 0.00082                     | <0.00010                   | 0.00082              |                            |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L | ----             | 0.0154                     | 0.0142                      | 0.00035                    | <sup>RRV</sup>       | 0.0141                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L | ----             | <0.000020                  | <0.000020                   | <0.000020                  | <0.000020            | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L | ----             | <0.000050                  | <0.000050                   | <0.000050                  | <0.000050            | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L | ----             | <0.010                     | 0.015                       | <0.010                     | 0.014                |                            |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L | ----             | 0.0000080                  | 0.0000060                   | <0.0000050                 | <0.0000050           | <0.0000050                 |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L | ----             | 29.0                       | 32.8                        | <0.050                     | 33.0                 |                            |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L | ----             | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010            | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L | ----             | <0.00050                   | <0.00050                    | <0.00050                   | <0.00050             | <0.00050                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW20_SW_20241<br>105<br>SW | SW28A_SW_20241<br>105<br>SW | SW06_SW_202411<br>05<br>SW | FB_SW_20241105<br>SW | SW10_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|-----------------------------|----------------------------|----------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 11:10          | 05-Nov-2024 11:20           | 05-Nov-2024 11:40          | 05-Nov-2024 12:00    | 05-Nov-2024 12:00          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-006              | TY2412886-007               | TY2412886-008              | TY2412886-009        | TY2412886-010              |
|                             |            |            |           |      |                  | Result                     | Result                      | Result                     | Result               | Result                     |
| <b>Dissolved Metals</b>     |            |            |           |      |                  |                            |                             |                            |                      |                            |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L | ----             | 0.00035                    | 0.00014                     | <0.00010                   | 0.00014              |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L | ----             | 0.00061                    | 0.00050                     | 0.00092 <sup>RRV</sup>     | 0.00050              |                            |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L | ----             | 0.310                      | 0.279                       | <0.010                     | 0.299                |                            |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L | ----             | 0.000084                   | 0.000052                    | <0.000050                  | 0.000052             |                            |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L | ----             | 0.0036                     | 0.0063                      | <0.0010                    | 0.0059               |                            |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L | ----             | 12.1                       | 13.5                        | <0.0050                    | 14.2                 |                            |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L | ----             | 0.240                      | 0.0194                      | <0.00010                   | 0.0193               |                            |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L | ----             | <0.0000050                 | <0.0000050                  | <0.0000050                 | <0.0000050           |                            |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L | ----             | 0.000357                   | 0.000290                    | <0.000050                  | 0.000286             |                            |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L | ----             | 0.00084                    | 0.00122                     | <0.00050                   | 0.00124              |                            |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L | ----             | <0.050                     | <0.050                      | <0.050                     | <0.050               |                            |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L | ----             | 1.81                       | 1.91                        | <0.050                     | 1.87                 |                            |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L | ----             | 0.00226                    | 0.00195                     | <0.00020                   | 0.00196              |                            |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L | ----             | 0.000107                   | 0.000159                    | <0.000050                  | 0.000151             |                            |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L | ----             | 3.21                       | 4.44                        | 0.057 <sup>RRV</sup>       | 4.36                 |                            |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L | ----             | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010            |                            |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L | ----             | 1.24                       | 8.28                        | 0.134 <sup>RRV</sup>       | 8.96                 |                            |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L | ----             | 0.0505                     | 0.0866                      | <0.00020                   | 0.0821               |                            |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L | ----             | <0.50                      | 1.47                        | <0.50                      | 1.43                 |                            |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L | ----             | <0.00020                   | <0.00020                    | <0.00020                   | <0.00020             |                            |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L | ----             | <0.000010                  | <0.000010                   | <0.000010                  | <0.000010            |                            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |            |          |      | Client sample ID | SW20_SW_20241<br>105<br>SW | SW28A_SW_20241<br>105<br>SW | SW06_SW_202411<br>05<br>SW | FB_SW_20241105<br>SW | SW10_SW_202411<br>05<br>SW |
|---------------------------------------|------------|------------|----------|------|------------------|----------------------------|-----------------------------|----------------------------|----------------------|----------------------------|
| Client sampling date / time           |            |            |          |      |                  | 05-Nov-2024 11:10          | 05-Nov-2024 11:20           | 05-Nov-2024 11:40          | 05-Nov-2024 12:00    | 05-Nov-2024 12:00          |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2412886-006              | TY2412886-007               | TY2412886-008              | TY2412886-009        | TY2412886-010              |
|                                       |            |            |          |      |                  | Result                     | Result                      | Result                     | Result               | Result                     |
| <b>Dissolved Metals</b>               |            |            |          |      |                  |                            |                             |                            |                      |                            |
| Thorium, dissolved                    | 7440-29-1  | E421/TY    | 0.00010  | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010             | <0.00010                   |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010             | <0.00010                   |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L | ----             | <0.00300 <sup>DLM</sup>    | 0.00322                     | <0.00030                   | 0.00321              | 0.00321                    |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L | ----             | <0.00010                   | <0.00010                    | <0.00010                   | <0.00010             | <0.00010                   |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L | ----             | 0.000577                   | 0.000547                    | <0.000010                  | 0.000516             | 0.000516                   |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L | ----             | 0.00058                    | 0.00057                     | <0.00050                   | 0.00059              | 0.00059                    |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L | ----             | 0.0011                     | 0.0011                      | <0.0010                    | <0.0010              | <0.0010                    |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L | ----             | <0.00030                   | 0.00033                     | <0.00030                   | 0.00030              | 0.00030                    |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    | ----             | Field                      | Field                       | Field                      | Field                | Field                      |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    | ----             | Field                      | Field                       | Field                      | Field                | Field                      |
| <b>Speciated Metals</b>               |            |            |          |      |                  |                            |                             |                            |                      |                            |
| Methylmercury (as MeHg), total        | 22967-92-6 | E536/VA    | 0.000020 | µg/L | ----             | ----                       | ----                        | ----                       | 0.000240             | 0.000240                   |
| <b>Aggregate Organics</b>             |            |            |          |      |                  |                            |                             |                            |                      |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L | ----             | <2.0                       | <2.0                        | <2.0                       | <2.0                 | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L | ----             | 65                         | 73                          | <10                        | 76                   | 76                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L | ----             | <1.0                       | <1.0                        | <1.0                       | <1.0                 | <1.0                       |
| <b>Radiological Parameters</b>        |            |            |          |      |                  |                            |                             |                            |                      |                            |
| Radium-226                            | 13982-63-3 | Ra-226/2l  | 0.005    | Bq/L | 0.007            | ----                       | ----                        | ----                       | ----                 | ----                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.





## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |              |        |          | Client sample ID            | TB_SW_20241105<br>SW    | SW23_SW_20241105<br>SW | SW23_SW_20241105<br>SW  | SW24_SW_20241105<br>SW | SW24_SW_20241105<br>SW |
|----------------------------------------------|------------|--------------|--------|----------|-----------------------------|-------------------------|------------------------|-------------------------|------------------------|------------------------|
| Client sampling date / time                  |            |              |        |          | 05-Nov-2024 12:00           | 05-Nov-2024 12:05       | 05-Nov-2024 12:05      | 05-Nov-2024 12:15       | 05-Nov-2024 12:15      |                        |
| Analyte                                      | CAS Number | Method/Lab   | LOR    | Unit     | TY2412886-011               | TY2412886-012           | TY2412886-013          | TY2412886-014           | TY2412886-015          |                        |
|                                              |            |              |        |          | Result                      | Result                  | Result                 | Result                  | Result                 |                        |
| Field Tests                                  |            |              |        |          |                             |                         |                        |                         |                        |                        |
| Oxygen, dissolved, field                     | ----       | EF001/TY     | 0.01   | mg/L     | ----                        | 8.55                    | ----                   | 10.01                   | ----                   |                        |
| pH, field                                    | ----       | EF001/TY     | 0.10   | pH units | ----                        | 7.09                    | ----                   | 7.45                    | ----                   |                        |
| Temperature, field                           | ----       | EF001/TY     | 0.10   | °C       | ----                        | 5.72                    | ----                   | 6.54                    | ----                   |                        |
| Physical Tests                               |            |              |        |          |                             |                         |                        |                         |                        |                        |
| Acidity (as CaCO3)                           | ----       | E283/TY      | 2.0    | mg/L     | 2.5                         | 4.4                     | ----                   | 2.8                     | ----                   |                        |
| Colour, true                                 | ----       | E329-L/TY    | 2.0    | CU       | <2.0                        | 98.3                    | ----                   | 69.1                    | ----                   |                        |
| Conductivity                                 | ----       | E100/TY      | 1.0    | µS/cm    | <1.0                        | 282                     | ----                   | 846                     | ----                   |                        |
| Hardness (as CaCO3), dissolved               | ----       | EC100/TY     | 0.50   | mg/L     | <0.50                       | 142                     | ----                   | 297                     | ----                   |                        |
| pH                                           | ----       | E108/TY      | 0.10   | pH units | 5.68                        | 7.97                    | ----                   | 8.01                    | ----                   |                        |
| Solids, total dissolved [TDS]                | ----       | E162/TY      | 10     | mg/L     | <10                         | 200                     | ----                   | 594                     | ----                   |                        |
| Solids, total suspended [TSS]                | ----       | E160/TY      | 3.0    | mg/L     | <3.0                        | 4.8                     | ----                   | 9.4                     | ----                   |                        |
| Turbidity                                    | ----       | E121/TY      | 0.10   | NTU      | <0.10                       | 11.1                    | ----                   | 12.4                    | ----                   |                        |
| Alkalinity, total (as CaCO3)                 | ----       | E290/TY      | 2.0    | mg/L     | <2.0                        | 141                     | ----                   | 130                     | ----                   |                        |
| Anions and Nutrients                         |            |              |        |          |                             |                         |                        |                         |                        |                        |
| Ammonia, total (as N)                        | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.102 <sup>&lt;T, RRV</sup> | 0.0237 <sup>&lt;T</sup> | ----                   | 0.0856 <sup>&lt;T</sup> | ----                   |                        |
| Ammonia, un-ionized (as N), field            | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | ----                        | <0.0010                 | ----                   | <0.0010                 | ----                   |                        |
| Chloride                                     | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | <0.10                       | 7.46                    | ----                   | 24.9                    | ----                   |                        |
| Fluoride                                     | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020                      | 0.040                   | ----                   | 0.049                   | ----                   |                        |
| Kjeldahl nitrogen, total [TKN]               | ----       | E318/TY      | 0.050  | mg/L     | <0.050                      | 1.00                    | ----                   | 1.13                    | ----                   |                        |
| Nitrate (as N)                               | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020                      | <0.020                  | ----                   | 0.391                   | ----                   |                        |
| Nitrite (as N)                               | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                      | <0.010                  | ----                   | <0.020 <sup>DLDS</sup>  | ----                   |                        |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID                         |            |             |           |      | TB_SW_20241105<br>SW | SW23_SW_202411<br>05<br>SW | SW23_SW_202411<br>05<br>SW | SW24_SW_2024110<br>5<br>SW | SW24_SW_202411<br>05<br>SW |
|------------------------------------------|------------|-------------|-----------|------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |             |           |      | 05-Nov-2024 12:00    | 05-Nov-2024 12:05          | 05-Nov-2024 12:05          | 05-Nov-2024 12:15          | 05-Nov-2024 12:15          |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit | TY2412886-011        | TY2412886-012              | TY2412886-013              | TY2412886-014              | TY2412886-015              |
|                                          |            |             |           |      | Result               | Result                     | Result                     | Result                     | Result                     |
| <b>Anions and Nutrients</b>              |            |             |           |      |                      |                            |                            |                            |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L | 0.0014               | 0.0145                     | ----                       | 0.0033                     | ----                       |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | <0.30                | 2.58                       | ----                       | 288                        | ----                       |
| <b>Cyanides</b>                          |            |             |           |      |                      |                            |                            |                            |                            |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L | <0.0020              | <0.0020                    | ----                       | 0.0023                     | ----                       |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L | <0.0020              | <0.0020                    | ----                       | <0.0020                    | ----                       |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L | <0.0020              | <0.0020                    | ----                       | <0.0020                    | ----                       |
| <b>Organic / Inorganic Carbon</b>        |            |             |           |      |                      |                            |                            |                            |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L | <0.50                | 28.0                       | ----                       | 20.9                       | ----                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L | <0.50                | 27.1                       | ----                       | 21.2                       | ----                       |
| <b>Total Metals</b>                      |            |             |           |      |                      |                            |                            |                            |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L | <0.0030              | 0.378                      | ----                       | 0.346                      | ----                       |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L | <0.00010             | <0.00010                   | ----                       | 0.00316 <T                 | ----                       |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L | <0.00010             | 0.00111 <T                 | ----                       | 0.00144 <T                 | ----                       |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L | <0.00010             | 0.0176                     | ----                       | 0.0282                     | ----                       |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L | <0.000020            | 0.000021 <T                | ----                       | 0.000022 <T                | ----                       |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L | <0.000050            | <0.000050                  | ----                       | <0.000050                  | ----                       |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L | <0.010               | 0.011 <T                   | ----                       | 0.061                      | ----                       |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L | <0.0000050           | 0.0000106 <T               | ----                       | 0.0000155 <T               | ----                       |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L | <0.050               | 34.0                       | ----                       | 91.2                       | ----                       |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L | <0.000010            | 0.000048                   | ----                       | 0.000150                   | ----                       |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L | <0.00050             | 0.00078 <T                 | ----                       | 0.00072 <T                 | ----                       |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | TB_SW_20241105<br>SW | SW23_SW_202411<br>05<br>SW | SW23_SW_202411<br>05<br>SW | SW24_SW_2024110<br>5<br>SW | SW24_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 12:00    | 05-Nov-2024 12:05          | 05-Nov-2024 12:05          | 05-Nov-2024 12:15          | 05-Nov-2024 12:15          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-011        | TY2412886-012              | TY2412886-013              | TY2412886-014              | TY2412886-015              |
|                             |            |            |           |      |                  | Result               | Result                     | Result                     | Result                     | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                      |                            |                            |                            |                            |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.00032 <T                 | ----                       | 0.00091 <T                 | ----                       |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00094 <T                 | ----                       | 0.00158 <T                 | ----                       |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | <0.010               | 0.719                      | ----                       | 0.587                      | ----                       |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000222 <T                | ----                       | 0.000200 <T                | ----                       |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | <0.0010              | 0.0049 <T                  | ----                       | 0.0118 <T                  | ----                       |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | <0.0050              | 14.0                       | ----                       | 20.7                       | ----                       |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.0849                     | ----                       | 0.0721                     | ----                       |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050           | <0.0000050                 | ----                       | <0.0000050                 | ----                       |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000275 <T                | ----                       | 0.00412 <T                 | ----                       |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00174 <T                 | ----                       | 0.00382 <T                 | ----                       |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050               | <0.050                     | ----                       | <0.050                     | ----                       |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | <0.050               | 1.81                       | ----                       | 18.7                       | ----                       |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00244                    | ----                       | 0.0120                     | ----                       |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000126 <T                | ----                       | 0.000305 <T                | ----                       |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | <0.10                | 5.40                       | ----                       | 4.54                       | ----                       |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | ----                       | <0.000010                  | ----                       |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | <0.050               | 4.02                       | ----                       | 42.8                       | ----                       |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.0718                     | ----                       | 0.403                      | ----                       |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | <0.50                | 1.31                       | ----                       | 98.2                       | ----                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | <0.00020                   | ----                       | <0.00020                   | ----                       |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | ----                       | <0.000010                  | ----                       |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                             |            |            |           |      | Client sample ID | TB_SW_20241105<br>SW | SW23_SW_202411<br>05<br>SW | SW23_SW_202411<br>05<br>SW | SW24_SW_2024110<br>5<br>SW | SW24_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 12:00    | 05-Nov-2024 12:05          | 05-Nov-2024 12:05          | 05-Nov-2024 12:15          | 05-Nov-2024 12:15          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-011        | TY2412886-012              | TY2412886-013              | TY2412886-014              | TY2412886-015              |
|                             |            |            |           |      |                  | Result               | Result                     | Result                     | Result                     | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                      |                            |                            |                            |                            |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | ----                       | <0.00010                   | ----                       |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | ----                       | <0.00010                   | ----                       |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | <0.00030             | 0.0128                     | ----                       | 0.0134                     | ----                       |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | ----                       | 0.00013                    | ----                       |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | 0.000547 <T                | ----                       | 0.00129 <T                 | ----                       |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00156                    | ----                       | 0.00151                    | ----                       |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | <0.0030              | <0.0030                    | ----                       | 0.0058 <T                  | ----                       |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00050                    | ----                       | 0.00042                    | ----                       |
| <b>Dissolved Metals</b>     |            |            |           |      |                  |                      |                            |                            |                            |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | <0.0010              | 0.129                      | ----                       | 0.244                      | ----                       |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | ----                       | 0.00292                    | ----                       |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.00108                    | ----                       | 0.00142                    | ----                       |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.0158                     | ----                       | 0.0265                     | ----                       |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020            | <0.000020                  | ----                       | <0.000020                  | ----                       |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | <0.000050                  | ----                       | <0.000050                  | ----                       |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | <0.010               | 0.010                      | ----                       | 0.055                      | ----                       |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | <0.0000050           | 0.0000087                  | ----                       | 0.0000154                  | ----                       |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | <0.050               | 33.6                       | ----                       | 83.6                       | ----                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010            | 0.000012                   | ----                       | 0.000126                   | ----                       |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050             | <0.00050                   | ----                       | 0.00053                    | ----                       |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.00026                    | ----                       | 0.00084                    | ----                       |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | TB_SW_20241105<br>SW | SW23_SW_202411<br>05<br>SW | SW23_SW_202411<br>05<br>SW | SW24_SW_2024110<br>5<br>SW | SW24_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 12:00    | 05-Nov-2024 12:05          | 05-Nov-2024 12:05          | 05-Nov-2024 12:15          | 05-Nov-2024 12:15          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-011        | TY2412886-012              | TY2412886-013              | TY2412886-014              | TY2412886-015              |
|                             |            |            |           |      |                  | Result               | Result                     | Result                     | Result                     | Result                     |
| Dissolved Metals            |            |            |           |      |                  |                      |                            |                            |                            |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00082                    | ----                       | 0.00143                    | ----                       |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | <0.010               | 0.514                      | ----                       | 0.479                      | ----                       |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000193                   | ----                       | 0.000184                   | ----                       |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | <0.0010              | 0.0052                     | ----                       | 0.0113                     | ----                       |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | <0.0050              | 14.0                       | ----                       | 21.4                       | ----                       |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.0823                     | ----                       | 0.0701                     | ----                       |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050           | <0.0000050                 | ----                       | <0.0000050                 | ----                       |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000252                   | ----                       | 0.00357                    | ----                       |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00153                    | ----                       | 0.00368                    | ----                       |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050               | <0.050                     | ----                       | <0.050                     | ----                       |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | <0.050               | 1.70                       | ----                       | 19.0                       | ----                       |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00182                    | ----                       | 0.0118                     | ----                       |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000146                   | ----                       | 0.000298                   | ----                       |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | <0.050               | 4.59                       | ----                       | 4.16                       | ----                       |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | ----                       | <0.000010                  | ----                       |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | <0.050               | 4.41                       | ----                       | 49.7                       | ----                       |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.0685                     | ----                       | 0.367                      | ----                       |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | <0.50                | 1.25                       | ----                       | 95.7                       | ----                       |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020             | <0.00020                   | ----                       | <0.00020                   | ----                       |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | ----                       | <0.000010                  | ----                       |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | ----                       | <0.00010                   | ----                       |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                       |            |            |          |      | Client sample ID | TB_SW_20241105<br>SW | SW23_SW_202411<br>05<br>SW | SW23_SW_202411<br>05<br>SW | SW24_SW_2024110<br>5<br>SW | SW24_SW_202411<br>05<br>SW |
|---------------------------------------|------------|------------|----------|------|------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time           |            |            |          |      |                  | 05-Nov-2024 12:00    | 05-Nov-2024 12:05          | 05-Nov-2024 12:05          | 05-Nov-2024 12:15          | 05-Nov-2024 12:15          |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2412886-011        | TY2412886-012              | TY2412886-013              | TY2412886-014              | TY2412886-015              |
|                                       |            |            |          |      |                  | Result               | Result                     | Result                     | Result                     | Result                     |
| <b>Dissolved Metals</b>               |            |            |          |      |                  |                      |                            |                            |                            |                            |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L |                  | <0.00010             | <0.00010                   | ----                       | <0.00010                   | ----                       |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L |                  | <0.00030             | 0.00554                    | ----                       | 0.00978                    | ----                       |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L |                  | <0.00010             | <0.00010                   | ----                       | 0.00011                    | ----                       |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L |                  | <0.000010            | 0.000526                   | ----                       | 0.00122                    | ----                       |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L |                  | <0.00050             | 0.00087                    | ----                       | 0.00102                    | ----                       |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L |                  | <0.0010              | 0.0026                     | ----                       | 0.0056                     | ----                       |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L |                  | <0.00030             | 0.00047                    | ----                       | 0.00044                    | ----                       |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    |                  | Field                | Field                      | ----                       | Field                      | ----                       |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    |                  | Field                | Field                      | ----                       | Field                      | ----                       |
| <b>Speciated Metals</b>               |            |            |          |      |                  |                      |                            |                            |                            |                            |
| Methylmercury (as MeHg), total        | 22967-92-6 | E536/VA    | 0.000020 | µg/L |                  | ----                 | ----                       | ----                       | 0.000166                   | ----                       |
| <b>Aggregate Organics</b>             |            |            |          |      |                  |                      |                            |                            |                            |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L |                  | <2.0                 | <2.0                       | ----                       | <2.0                       | ----                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L |                  | <10                  | 68                         | ----                       | 55                         | ----                       |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L |                  | <1.0                 | <1.0                       | ----                       | <1.0                       | ----                       |
| <b>Radiological Parameters</b>        |            |            |          |      |                  |                      |                            |                            |                            |                            |
| Radium-226                            | 13982-63-3 | Ra-226/2l  | 0.005    | Bq/L |                  | ----                 | ----                       | 0.008                      | ----                       | <0.005                     |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                             |            |              |        |          | Client sample ID | SW29A_SW_2024<br>1105<br>SW | SW03_SW_202411<br>05<br>SW | SW22A_SW_2024<br>1105<br>SW | SW22A_SW_202411<br>05<br>SW | SW27_SW_202411<br>05<br>SW |
|---------------------------------------------|------------|--------------|--------|----------|------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|
| Client sampling date / time                 |            |              |        |          |                  | 05-Nov-2024 12:50           | 05-Nov-2024 13:10          | 05-Nov-2024 14:10           | 05-Nov-2024 14:10           | 05-Nov-2024 14:40          |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2412886-016               | TY2412886-017              | TY2412886-018               | TY2412886-019               | TY2412886-020              |
|                                             |            |              |        |          |                  | Result                      | Result                     | Result                      | Result                      | Result                     |
| Field Tests                                 |            |              |        |          |                  |                             |                            |                             |                             |                            |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     |                  | 2.87                        | 6.98                       | 5.86                        | ----                        | 4.27                       |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units |                  | 6.67                        | 7.11                       | 7.29                        | ----                        | 7.27                       |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       |                  | 6.05                        | 5.85                       | 5.75                        | ----                        | 4.93                       |
| Physical Tests                              |            |              |        |          |                  |                             |                            |                             |                             |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     |                  | 4.5                         | 2.8                        | 2.8                         | ----                        | 3.6                        |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       |                  | 61.0                        | 62.0                       | 54.6                        | ----                        | 44.9                       |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    |                  | 217                         | 334                        | 328                         | ----                        | 491                        |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     |                  | 109                         | 157                        | 153                         | ----                        | 234                        |
| pH                                          | ----       | E108/TY      | 0.10   | pH units |                  | 7.87                        | 8.07                       | 8.05                        | ----                        | 8.09                       |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     |                  | 152                         | 214                        | 213                         | ----                        | 274                        |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     |                  | <3.0                        | 7.0                        | 4.2                         | ----                        | <3.0                       |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      |                  | 3.04                        | 11.0                       | 6.29                        | ----                        | 3.33                       |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     |                  | 118                         | 159                        | 156                         | ----                        | 230                        |
| Anions and Nutrients                        |            |              |        |          |                  |                             |                            |                             |                             |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | 0.0099 <sup>&lt;T</sup>     | 0.0152 <sup>&lt;T</sup>    | 0.0205 <sup>&lt;T</sup>     | ----                        | 0.0346 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010                     | <0.0010                    | <0.0010                     | ----                        | <0.0010                    |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 1.54                        | 14.5                       | 15.2                        | ----                        | 13.3                       |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.026                       | 0.045                      | 0.041                       | ----                        | 0.043                      |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     |                  | 0.726                       | 0.974                      | 0.856                       | ----                        | 0.798                      |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | <0.020                      | <0.020                     | <0.020                      | ----                        | <0.020                     |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     |                  | <0.010                      | <0.010                     | <0.010                      | ----                        | <0.010                     |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |             |           |      | Client sample ID | SW29A_SW_2024<br>1105<br>SW | SW03_SW_202411<br>05<br>SW | SW22A_SW_2024<br>1105<br>SW | SW22A_SW_202411<br>05<br>SW | SW27_SW_202411<br>05<br>SW |
|------------------------------------------|------------|-------------|-----------|------|------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|
| Client sampling date / time              |            |             |           |      |                  | 05-Nov-2024 12:50           | 05-Nov-2024 13:10          | 05-Nov-2024 14:10           | 05-Nov-2024 14:10           | 05-Nov-2024 14:40          |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit |                  | TY2412886-016               | TY2412886-017              | TY2412886-018               | TY2412886-019               | TY2412886-020              |
|                                          |            |             |           |      |                  | Result                      | Result                     | Result                      | Result                      | Result                     |
| Anions and Nutrients                     |            |             |           |      |                  |                             |                            |                             |                             |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L |                  | 0.0119                      | 0.0164                     | 0.0138                      | ----                        | 0.0196                     |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L |                  | 0.41                        | 2.96                       | 3.04                        | ----                        | 30.6                       |
| Cyanides                                 |            |             |           |      |                  |                             |                            |                             |                             |                            |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                     | ----                        | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                     | ----                        | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                     | ----                        | <0.0020                    |
| Organic / Inorganic Carbon               |            |             |           |      |                  |                             |                            |                             |                             |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L |                  | 21.6                        | 24.1                       | 23.5                        | ----                        | 18.2                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L |                  | 21.1                        | 22.8                       | 21.2                        | ----                        | 17.4                       |
| Total Metals                             |            |             |           |      |                  |                             |                            |                             |                             |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L |                  | 0.0280 <sup>&lt;T</sup>     | 0.260                      | 0.160                       | ----                        | 0.0705                     |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L |                  | 0.00067 <sup>&lt;T</sup>    | 0.00098 <sup>&lt;T</sup>   | 0.00079 <sup>&lt;T</sup>    | ----                        | 0.00089 <sup>&lt;T</sup>   |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L |                  | 0.0106                      | 0.0175                     | 0.0170                      | ----                        | 0.0248                     |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                  | <0.000020                   | ----                        | <0.000020                  |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                  | <0.000050                   | ----                        | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L |                  | 0.010                       | 0.013 <sup>&lt;T</sup>     | 0.012 <sup>&lt;T</sup>      | ----                        | 0.017 <sup>&lt;T</sup>     |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L |                  | 0.0000068 <sup>&lt;T</sup>  | 0.0000096 <sup>&lt;T</sup> | <0.0000050                  | ----                        | <0.0000050                 |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L |                  | 26.2                        | 40.4                       | 38.6                        | ----                        | 59.9                       |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L |                  | <0.000010                   | 0.000034                   | 0.000023                    | ----                        | <0.000010                  |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L |                  | <0.00050                    | 0.00062 <sup>&lt;T</sup>   | <0.00050                    | ----                        | <0.00050                   |





## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW29A_SW_2024<br>1105<br>SW | SW03_SW_202411<br>05<br>SW | SW22A_SW_2024<br>1105<br>SW | SW22A_SW_202411<br>05<br>SW | SW27_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 12:50           | 05-Nov-2024 13:10          | 05-Nov-2024 14:10           | 05-Nov-2024 14:10           | 05-Nov-2024 14:40          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-016               | TY2412886-017              | TY2412886-018               | TY2412886-019               | TY2412886-020              |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                      | Result                      | Result                     |
| Total Metals                |            |            |           |      |                  |                             |                            |                             |                             |                            |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L |                  | 0.00022 <T                  | 0.00029 <T                 | 0.00026 <T                  | ----                        | 0.00014 <T                 |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | <0.00050                    | 0.00075 <T                 | <0.00050                    | ----                        | 0.00070 <T                 |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | 0.289                       | 0.456                      | 0.340                       | ----                        | 0.190                      |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | <0.000050                   | 0.000165 <T                | 0.000086 <T                 | ----                        | <0.000050                  |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | 0.0031 <T                   | 0.0055 <T                  | 0.0056 <T                   | ----                        | 0.0080 <T                  |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | 11.2                        | 15.4                       | 15.4                        | ----                        | 22.2                       |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | 0.0910                      | 0.0696                     | 0.141                       | ----                        | 0.0731                     |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                  | ----                        | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | 0.000225 <T                 | 0.000261 <T                | 0.000239 <T                 | ----                        | 0.000512 <T                |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | 0.00080 <T                  | 0.00162 <T                 | 0.00126 <T                  | ----                        | 0.00122 <T                 |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050                      | 0.051                      | <0.050                      | ----                        | <0.050                     |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | 1.17                        | 2.58                       | 2.38                        | ----                        | 2.92                       |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00185                     | 0.00305                    | 0.00286                     | ----                        | 0.00207                    |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | 0.000112 <T                 | 0.000139 <T                | 0.000097 <T                 | ----                        | 0.000113 <T                |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | 4.12                        | 4.94                       | 4.00                        | ----                        | 4.83                       |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                   | ----                        | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | 1.64                        | 6.20                       | 6.58                        | ----                        | 5.17                       |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | 0.0507                      | 0.0883                     | 0.0851                      | ----                        | 0.147                      |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | <0.50                       | 1.43                       | 1.59                        | ----                        | 10.8                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                   | <0.00020                    | ----                        | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                   | ----                        | <0.000010                  |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW29A_SW_2024<br>1105<br>SW | SW03_SW_202411<br>05<br>SW | SW22A_SW_2024<br>1105<br>SW | SW22A_SW_202411<br>05<br>SW | SW27_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 12:50           | 05-Nov-2024 13:10          | 05-Nov-2024 14:10           | 05-Nov-2024 14:10           | 05-Nov-2024 14:40          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-016               | TY2412886-017              | TY2412886-018               | TY2412886-019               | TY2412886-020              |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                      | Result                      | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                             |                            |                             |                             |                            |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | 0.00079                     | 0.00883                    | 0.00510                     | ----                        | <0.00921 <sup>DLM</sup>    |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | 0.000129 <sup>&lt;T</sup>   | 0.000534 <sup>&lt;T</sup>  | 0.000432 <sup>&lt;T</sup>   | ----                        | 0.00136 <sup>&lt;T</sup>   |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | <0.00050                    | 0.00118                    | 0.00078                     | ----                        | 0.00059                    |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | <0.0030                     | <0.0030                    | <0.0030                     | ----                        | 0.0047 <sup>&lt;T</sup>    |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020                    | 0.00034                    | 0.00024                     | ----                        | 0.00023                    |
| <b>Dissolved Metals</b>     |            |            |           |      |                  |                             |                            |                             |                             |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | 0.0198                      | 0.129                      | 0.0820                      | ----                        | 0.0656                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | 0.00062                     | 0.00096                    | 0.00080                     | ----                        | 0.00092                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | 0.0106                      | 0.0167                     | 0.0162                      | ----                        | 0.0232                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                  | <0.000020                   | ----                        | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                  | <0.000050                   | ----                        | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | <0.010                      | 0.012                      | 0.011                       | ----                        | 0.016                      |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | <0.0000050                  | 0.0000115                  | 0.0000065                   | ----                        | <0.0000050                 |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | 25.2                        | 38.1                       | 36.4                        | ----                        | 57.1                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | 0.000011                   | <0.000010                   | ----                        | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                   | <0.00050                    | ----                        | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | 0.00022                     | 0.00023                    | 0.00023                     | ----                        | 0.00012                    |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW29A_SW_2024<br>1105<br>SW | SW03_SW_202411<br>05<br>SW | SW22A_SW_2024<br>1105<br>SW | SW22A_SW_202411<br>05<br>SW | SW27_SW_202411<br>05<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 12:50           | 05-Nov-2024 13:10          | 05-Nov-2024 14:10           | 05-Nov-2024 14:10           | 05-Nov-2024 14:40          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-016               | TY2412886-017              | TY2412886-018               | TY2412886-019               | TY2412886-020              |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                      | Result                      | Result                     |
| Dissolved Metals            |            |            |           |      |                  |                             |                            |                             |                             |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00023                     | 0.00070                    | 0.00028                     | ----                        | 0.00065                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | 0.274                       | 0.302                      | 0.280                       | ----                        | 0.174                      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                   | 0.000148                   | 0.000074                    | ----                        | <0.000050                  |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | 0.0031                      | 0.0056                     | 0.0055                      | ----                        | 0.0080                     |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | 11.1                        | 15.1                       | 15.2                        | ----                        | 22.2                       |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | 0.0841                      | 0.0691                     | 0.139                       | ----                        | 0.0715                     |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                  | ----                        | <0.0000050                 |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | 0.000199                    | 0.000259                   | 0.000222                    | ----                        | 0.000459                   |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | 0.00072                     | 0.00147                    | 0.00119                     | ----                        | 0.00114                    |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050                      | <0.050                     | <0.050                      | ----                        | <0.050                     |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | 1.14                        | 2.45                       | 2.35                        | ----                        | 2.99                       |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | 0.00171                     | 0.00258                    | 0.00261                     | ----                        | 0.00198                    |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | 0.000118                    | 0.000182                   | 0.000157                    | ----                        | 0.000167                   |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 4.11                        | 4.70                       | 3.77                        | ----                        | 4.64                       |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                   | ----                        | <0.000010                  |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 1.87                        | 7.03                       | 7.46                        | ----                        | 5.99                       |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | 0.0500                      | 0.0836                     | 0.0820                      | ----                        | 0.139                      |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | <0.50                       | 1.43                       | 1.39                        | ----                        | 10.1                       |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                   | <0.00020                    | ----                        | <0.00020                   |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | 0.000012                    | ----                        | <0.000010                  |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |            |          |      | Client sample ID | SW29A_SW_2024<br>1105<br>SW | SW03_SW_202411<br>05<br>SW | SW22A_SW_2024<br>1105<br>SW | SW22A_SW_202411<br>05<br>SW | SW27_SW_202411<br>05<br>SW |
|---------------------------------------|------------|------------|----------|------|------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|
| Client sampling date / time           |            |            |          |      |                  | 05-Nov-2024 12:50           | 05-Nov-2024 13:10          | 05-Nov-2024 14:10           | 05-Nov-2024 14:10           | 05-Nov-2024 14:40          |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2412886-016               | TY2412886-017              | TY2412886-018               | TY2412886-019               | TY2412886-020              |
|                                       |            |            |          |      |                  | Result                      | Result                     | Result                      | Result                      | Result                     |
| <b>Dissolved Metals</b>               |            |            |          |      |                  |                             |                            |                             |                             |                            |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L |                  | 0.00069                     | 0.00505                    | 0.00264                     | ----                        | 0.00281                    |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                    | ----                        | <0.00010                   |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L |                  | 0.000117                    | 0.000496                   | 0.000412                    | ----                        | 0.00126                    |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L |                  | <0.00050                    | 0.00075                    | <0.00050                    | ----                        | <0.00050                   |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L |                  | 0.0011                      | 0.0021                     | 0.0016                      | ----                        | 0.0049                     |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L |                  | <0.00030                    | 0.00034                    | <0.00030                    | ----                        | <0.00030                   |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    |                  | Field                       | Field                      | Field                       | ----                        | Field                      |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    |                  | Field                       | Field                      | Field                       | ----                        | Field                      |
| <b>Speciated Metals</b>               |            |            |          |      |                  |                             |                            |                             |                             |                            |
| Methylmercury (as MeHg), total        | 22967-92-6 | E536/VA    | 0.000020 | µg/L |                  | ----                        | 0.000330                   | 0.000308                    | ----                        | ----                       |
| <b>Aggregate Organics</b>             |            |            |          |      |                  |                             |                            |                             |                             |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L |                  | <2.0                        | <2.0                       | <2.0                        | ----                        | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L |                  | 58                          | 60                         | 57                          | ----                        | 44                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L |                  | <1.0                        | <1.0                       | <1.0                        | ----                        | <1.0                       |
| <b>Radiological Parameters</b>        |            |            |          |      |                  |                             |                            |                             |                             |                            |
| Radium-226                            | 13982-63-3 | Ra-226/2l  | 0.005    | Bq/L |                  | ----                        | ----                       | ----                        | 0.006                       | ----                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                             |            |              |        |          | Client sample ID | SW21A_SW_2024<br>1105<br>SW | SW26_SW_202411<br>05<br>SW | SW25_SW_202411<br>05<br>SW | SW15_SW_2024110<br>5<br>SW | ---- |
|---------------------------------------------|------------|--------------|--------|----------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time                 |            |              |        |          |                  | 05-Nov-2024 14:55           | 05-Nov-2024 15:15          | 05-Nov-2024 15:35          | 05-Nov-2024 23:15          | ---- |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2412886-021               | TY2412886-022              | TY2412886-023              | TY2412886-024              | ---- |
|                                             |            |              |        |          |                  | Result                      | Result                     | Result                     | Result                     | ---- |
| Field Tests                                 |            |              |        |          |                  |                             |                            |                            |                            |      |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     |                  | 6.8                         | 11.7                       | 8.6                        | 7.19                       | ---- |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units |                  | 7.31                        | 7.78                       | 7.65                       | 7.04                       | ---- |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       |                  | 6.02                        | 5.80                       | 6.20                       | 5.79                       | ---- |
| Physical Tests                              |            |              |        |          |                  |                             |                            |                            |                            |      |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     |                  | 3.6                         | <2.0                       | <2.0                       | 3.1                        | ---- |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       |                  | 57.4                        | 36.2                       | 41.3                       | 205                        | ---- |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    |                  | 315                         | 483                        | 394                        | 213                        | ---- |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     |                  | 140                         | 230                        | 194                        | 121                        | ---- |
| pH                                          | ----       | E108/TY      | 0.10   | pH units |                  | 8.05                        | 8.26                       | 8.21                       | 7.94                       | ---- |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     |                  | 211                         | 281                        | 251                        | 186                        | ---- |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     |                  | 4.8                         | <3.0                       | 5.4                        | 6.6                        | ---- |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      |                  | 5.61                        | 5.68                       | 8.46                       | 17.4                       | ---- |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     |                  | 151                         | 225                        | 186                        | 105                        | ---- |
| Anions and Nutrients                        |            |              |        |          |                  |                             |                            |                            |                            |      |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | 0.0231 <sup>&lt;T</sup>     | <0.0050                    | 0.0101 <sup>&lt;T</sup>    | 0.0524 <sup>&lt;T</sup>    | ---- |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010                     | <0.0010                    | <0.0010                    | <0.0010                    | ---- |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 15.2                        | 13.9                       | 14.2                       | 3.26                       | ---- |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.041                       | 0.043                      | 0.036                      | 0.031                      | ---- |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     |                  | 1.00                        | 0.704                      | 0.754                      | 1.29                       | ---- |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | <0.020                      | <0.020                     | <0.020                     | <0.020                     | ---- |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     |                  | <0.010                      | <0.010                     | <0.010                     | <0.010                     | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID                         |            |             |           |      | SW21A_SW_2024<br>1105<br>SW | SW26_SW_202411<br>05<br>SW | SW25_SW_202411<br>05<br>SW | SW15_SW_2024110<br>5<br>SW | ---- |
|------------------------------------------|------------|-------------|-----------|------|-----------------------------|----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time              |            |             |           |      | 05-Nov-2024 14:55           | 05-Nov-2024 15:15          | 05-Nov-2024 15:35          | 05-Nov-2024 23:15          | ---- |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit | TY2412886-021               | TY2412886-022              | TY2412886-023              | TY2412886-024              | ---- |
|                                          |            |             |           |      | Result                      | Result                     | Result                     | Result                     | ---- |
| Anions and Nutrients                     |            |             |           |      |                             |                            |                            |                            |      |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L | 0.0185                      | 0.0021                     | 0.0043                     | 0.0148                     | ---- |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | 1.21                        | 40.1                       | 14.9                       | 4.00                       | ---- |
| Cyanides                                 |            |             |           |      |                             |                            |                            |                            |      |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    | ---- |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    | ---- |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    | ---- |
| Organic / Inorganic Carbon               |            |             |           |      |                             |                            |                            |                            |      |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L | 22.7                        | 16.0                       | 17.1                       | 37.1                       | ---- |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L | 21.9                        | 15.1                       | 15.6                       | 35.3                       | ---- |
| Total Metals                             |            |             |           |      |                             |                            |                            |                            |      |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L | 0.154                       | 0.113                      | 0.150                      | 0.518                      | ---- |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | ---- |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L | 0.00078 <sup>&lt;T</sup>    | 0.00101 <sup>&lt;T</sup>   | 0.00094 <sup>&lt;T</sup>   | 0.00129 <sup>&lt;T</sup>   | ---- |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L | 0.0164                      | 0.0254                     | 0.0206                     | 0.0170                     | ---- |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L | <0.000020                   | <0.000020                  | <0.000020                  | 0.000032 <sup>&lt;T</sup>  | ---- |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  | ---- |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L | 0.012 <sup>&lt;T</sup>      | 0.014 <sup>&lt;T</sup>     | 0.012 <sup>&lt;T</sup>     | 0.012 <sup>&lt;T</sup>     | ---- |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L | <0.0000050                  | <0.0000050                 | 0.0000057 <sup>&lt;T</sup> | 0.0000191 <sup>&lt;T</sup> | ---- |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L | 34.7                        | 60.5                       | 48.1                       | 25.6                       | ---- |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L | 0.000020                    | 0.000015                   | 0.000024                   | 0.000075                   | ---- |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L | <0.00050                    | <0.00050                   | <0.00050                   | 0.00116 <sup>&lt;T</sup>   | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW21A_SW_2024<br>1105<br>SW | SW26_SW_202411<br>05<br>SW | SW25_SW_202411<br>05<br>SW | SW15_SW_2024110<br>5<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 14:55           | 05-Nov-2024 15:15          | 05-Nov-2024 15:35          | 05-Nov-2024 23:15          | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-021               | TY2412886-022              | TY2412886-023              | TY2412886-024              | ---- |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                     | Result                     | ---- |
| Total Metals                |            |            |           |      |                  |                             |                            |                            |                            |      |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L |                  | 0.00028 <T                  | 0.00012 <T                 | 0.00013 <T                 | 0.00037 <T                 | ---- |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | <0.00050                    | 0.00104 <T                 | 0.00130 <T                 | 0.00136 <T                 | ---- |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | 0.349                       | 0.217                      | 0.240                      | 0.979                      | ---- |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | 0.000086 <T                 | 0.000057 <T                | 0.000097 <T                | 0.000382 <T                | ---- |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | 0.0052 <T                   | 0.0076 <T                  | 0.0044 <T                  | 0.0050 <T                  | ---- |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | 14.7                        | 22.8                       | 17.5                       | 11.2                       | ---- |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | 0.144                       | 0.0273                     | 0.0299                     | 0.0478                     | ---- |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 | ---- |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | 0.000238 <T                 | 0.000565 <T                | 0.000461 <T                | 0.000220 <T                | ---- |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | 0.00123 <T                  | 0.00120 <T                 | 0.00151 <T                 | 0.00174 <T                 | ---- |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050                      | <0.050                     | <0.050                     | <0.050                     | ---- |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | 2.27                        | 2.35                       | 1.84                       | 1.42                       | ---- |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00288                     | 0.00146                    | 0.00159                    | 0.00241                    | ---- |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | 0.000133 <T                 | 0.000121 <T                | 0.000123 <T                | 0.000160 <T                | ---- |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | 3.82                        | 4.11                       | 4.11                       | 5.50                       | ---- |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  | ---- |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | 6.53                        | 5.19                       | 3.04                       | 2.71                       | ---- |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | 0.0825                      | 0.148                      | 0.0983                     | 0.0549                     | ---- |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | 0.73                        | 13.3                       | 5.04                       | 1.70                       | ---- |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   | ---- |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | 0.000013 <T                 | <0.000010                  | <0.000010                  | <0.000010                  | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW21A_SW_2024<br>1105<br>SW | SW26_SW_202411<br>05<br>SW | SW25_SW_202411<br>05<br>SW | SW15_SW_2024110<br>5<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 14:55           | 05-Nov-2024 15:15          | 05-Nov-2024 15:35          | 05-Nov-2024 23:15          | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-021               | TY2412886-022              | TY2412886-023              | TY2412886-024              | ---- |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                     | Result                     | ---- |
| Total Metals                |            |            |           |      |                  |                             |                            |                            |                            |      |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | 0.00012                    | ---- |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | ---- |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | <0.00672 <sup>DLM</sup>     | 0.00550                    | 0.00565                    | 0.0195                     | ---- |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | ---- |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | 0.000388 <sup>&lt;T</sup>   | 0.00152 <sup>&lt;T</sup>   | 0.00128 <sup>&lt;T</sup>   | 0.000439 <sup>&lt;T</sup>  | ---- |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | 0.00079                     | 0.00072                    | 0.00092                    | 0.00209                    | ---- |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | <0.0030                     | 0.0046 <sup>&lt;T</sup>    | 0.0180                     | 0.0047 <sup>&lt;T</sup>    | ---- |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00024                     | 0.00027                    | 0.00038                    | 0.00065                    | ---- |
| Dissolved Metals            |            |            |           |      |                  |                             |                            |                            |                            |      |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | 0.0725                      | 0.0861                     | 0.0896                     | 0.217                      | ---- |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00100 <sup>DLM</sup>    | ---- |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | 0.00080                     | 0.00101                    | 0.00090                    | 0.00117                    | ---- |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | 0.0156                      | 0.0254                     | 0.0198                     | 0.0147                     | ---- |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                  | <0.000020                  | <0.000200 <sup>DLM</sup>   | ---- |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                  | <0.000050                  | <0.000500 <sup>DLM</sup>   | ---- |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | 0.011                       | 0.015                      | 0.011                      | <0.100 <sup>DLM</sup>      | ---- |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000500 <sup>DLM</sup>  | ---- |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | 33.3                        | 56.9                       | 49.4                       | 28.4                       | ---- |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | 0.000012                   | <0.000100 <sup>DLM</sup>   | ---- |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                   | <0.00050                   | <0.00500 <sup>DLM</sup>    | ---- |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | 0.00024                     | 0.00011                    | 0.00012                    | <0.00100 <sup>DLM</sup>    | ---- |





## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW21A_SW_2024<br>1105<br>SW | SW26_SW_202411<br>05<br>SW | SW25_SW_202411<br>05<br>SW | SW15_SW_2024110<br>5<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time |            |            |           |      |                  | 05-Nov-2024 14:55           | 05-Nov-2024 15:15          | 05-Nov-2024 15:35          | 05-Nov-2024 23:15          | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2412886-021               | TY2412886-022              | TY2412886-023              | TY2412886-024              | ---- |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                     | Result                     | ---- |
| Dissolved Metals            |            |            |           |      |                  |                             |                            |                            |                            |      |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00026                     | 0.00099                    | 0.00122                    | <0.00200 DLM               | ---- |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | 0.266                       | 0.167                      | 0.157                      | 0.719                      | ---- |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | 0.000074                    | 0.000054                   | 0.000074                   | <0.000500 DLM              | ---- |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | 0.0051                      | 0.0077                     | 0.0053                     | <0.0100 DLM                | ---- |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | 13.9                        | 21.4                       | 17.3                       | 12.2                       | ---- |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | 0.140                       | 0.0261                     | 0.0297                     | 0.0474                     | ---- |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 | ---- |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | 0.000214                    | 0.000586                   | 0.000476                   | <0.000500 DLM              | ---- |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | 0.00111                     | 0.00123                    | 0.00138                    | <0.00500 DLM               | ---- |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050                      | <0.050                     | <0.050                     | <0.500 DLM                 | ---- |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | 2.13                        | 2.20                       | 1.87                       | 1.33                       | ---- |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | 0.00265                     | 0.00130                    | 0.00126                    | <0.00200 DLM               | ---- |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | 0.000173                    | 0.000132                   | 0.000157                   | <0.000500 DLM              | ---- |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 3.60                        | 4.05                       | 3.99                       | 4.56                       | ---- |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                  | <0.000100 DLM              | ---- |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 7.03                        | 5.46                       | 3.21                       | 3.45                       | ---- |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | 0.0761                      | 0.144                      | 0.0949                     | 0.0598                     | ---- |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | 0.77                        | 13.5                       | 5.09                       | <5.00 DLM                  | ---- |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00200 DLM               | ---- |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                  | <0.000100 DLM              | ---- |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00100 DLM               | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |                |            |          |      | Client sample ID | SW21A_SW_2024<br>1105<br>SW | SW26_SW_202411<br>05<br>SW | SW25_SW_202411<br>05<br>SW | SW15_SW_2024110<br>5<br>SW | ---- |
|---------------------------------------|----------------|------------|----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|------|
| Client sampling date / time           |                |            |          |      |                  | 05-Nov-2024 14:55           | 05-Nov-2024 15:15          | 05-Nov-2024 15:35          | 05-Nov-2024 23:15          | ---- |
| Analyte                               | CAS Number     | Method/Lab | LOR      | Unit |                  | TY2412886-021               | TY2412886-022              | TY2412886-023              | TY2412886-024              | ---- |
|                                       |                |            |          |      |                  | Result                      | Result                     | Result                     | Result                     | ---- |
| Dissolved Metals                      |                |            |          |      |                  |                             |                            |                            |                            |      |
| Tin, dissolved                        | 7440-31-5      | E421/TY    | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00100 <sup>DLM</sup>    | ---- |
| Titanium, dissolved                   | 7440-32-6      | E421/TY    | 0.00030  | mg/L |                  | 0.00332                     | 0.00470                    | <0.00423 <sup>DLM</sup>    | <0.0180 <sup>DLM</sup>     | ---- |
| Tungsten, dissolved                   | 7440-33-7      | E421/TY    | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00100 <sup>DLM</sup>    | ---- |
| Uranium, dissolved                    | 7440-61-1      | E421/TY    | 0.000010 | mg/L |                  | 0.000366                    | 0.00148                    | 0.00120                    | 0.000442                   | ---- |
| Vanadium, dissolved                   | 7440-62-2      | E421/TY    | 0.00050  | mg/L |                  | <0.00050                    | <0.00050                   | 0.00060                    | <0.00500 <sup>DLM</sup>    | ---- |
| Zinc, dissolved                       | 7440-66-6      | E421/TY    | 0.0010   | mg/L |                  | 0.0010                      | 0.0049                     | 0.0169                     | <0.0100 <sup>DLM</sup>     | ---- |
| Zirconium, dissolved                  | 7440-67-7      | E421/TY    | 0.00030  | mg/L |                  | <0.00030                    | 0.00033                    | 0.00035                    | <0.00300 <sup>DLM</sup>    | ---- |
| Dissolved mercury filtration location | ---- EP509/WT  |            | -        | -    |                  | Field                       | Field                      | Field                      | Field                      | ---- |
| Dissolved metals filtration location  | ---- EP421/TY  |            | -        | -    |                  | Field                       | Field                      | Field                      | Field                      | ---- |
| Aggregate Organics                    |                |            |          |      |                  |                             |                            |                            |                            |      |
| Biochemical oxygen demand [BOD]       | ---- E550/TY   |            | 2.0      | mg/L |                  | <2.0                        | <2.0                       | <2.0                       | <2.0                       | ---- |
| Chemical oxygen demand [COD]          | ---- E559-L/TY |            | 10       | mg/L |                  | 56                          | 42                         | 41                         | 115                        | ---- |
| Oil & grease (gravimetric)            | ---- E567-L/WT |            | 1.0      | mg/L |                  | <1.0                        | <1.0                       | <1.0                       | <1.0                       | ---- |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

## ***Test Report***

SRC Group # 2024-14716

Nov 29, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Nov-14-2024

Client P.O.: TY2412886

---

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 Snook, Vicky

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

**SRC Group # 2024-14716**

Nov 29, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2024042649**  
Date Sampled: **Nov 05, 2024**  
Sample Matrix: **WATER**  
Description: **11/05/2024 10:10 SW20\_SW\_20241105 TY2412886-006**

Client PO #: **TY2412886**  
Date Received: **Nov 14, 2024**

| Analyte              | Units | Result | DL    |
|----------------------|-------|--------|-------|
| <b>Lab Section 4</b> |       |        |       |
| Radium-226*          | Bq/L  | 0.007  | 0.005 |

The temperature of the cooler was 14.9 °C upon receipt.

**SRC Group # 2024-14716**

Nov 29, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024042650** Client PO #: **TY2412886**  
Date Sampled: **Nov 05, 2024** Date Received: **Nov 14, 2024**  
Sample Matrix: **WATER**  
Description: **11/05/2024 11:05 SW23\_SW\_20241105 TY2412886-013**

| Analyte              | Units | Result | DL    |
|----------------------|-------|--------|-------|
| <b>Lab Section 4</b> |       |        |       |
| Radium-226*          | Bq/L  | 0.008  | 0.005 |

The temperature of the cooler was 14.9 °C upon receipt.

SRC Group # 2024-14716

Nov 29, 2024

ALS, Thunder Bay Analytical

|                |                                                        |                |                     |
|----------------|--------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024042651</b>                                      | Client PO #:   | <b>TY2412886</b>    |
| Date Sampled:  | <b>Nov 05, 2024</b>                                    | Date Received: | <b>Nov 14, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                           |                |                     |
| Description:   | <b>11/05/2024 11:15 SW24_SW_20241105 TY2412886-015</b> |                |                     |

| 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 14.9 °C upon receipt.

**SRC Group # 2024-14716**

Nov 29, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024042652** Client PO #: **TY2412886**  
Date Sampled: **Nov 05, 2024** Date Received: **Nov 14, 2024**  
Sample Matrix: **WATER**  
Description: **11/05/2024 13:10 SW22A\_SW\_20241105 TY2412886-019**

| <b>Analyte</b>       | <b>Units</b> | <b>Result</b> | <b>DL</b> |
|----------------------|--------------|---------------|-----------|
| <b>Lab Section 4</b> |              |               |           |
| Radium-226*          | Bq/L         | 0.006         | 0.005     |

The temperature of the cooler was 14.9 °C upon receipt.

SRC Group # 2024-14716

Nov 29, 2024

ALS, Thunder Bay Analytical

**Analyte Methods**

| Name       | Units | Method  |
|------------|-------|---------|
| Radium-226 | Bq/L  | Rad-105 |



Project Name: Rainy River

Location: Chapple

Project Number:

Project Manager:

PO Number:

Project:

Turn Around Time (days): 10 Business Days

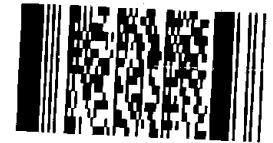
Shipping Company:

Shipping Date: 11/7/2024 7:54:00 AM

COC Number: ALS-456033291

| <div>Containers</div> <div>Filtered</div> <div>Preservatives</div> |                               |                     |                 |                  |        | Mercury - Total and | MeHg Bottle                | SW Kit     | Ra-226 Bottle |  |  |  |  |  |  |    |  |
|--------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------------|----------------------------|------------|---------------|--|--|--|--|--|--|----|--|
|                                                                    |                               |                     |                 |                  |        | N                   | N                          | N          | N             |  |  |  |  |  |  |    |  |
|                                                                    |                               |                     |                 |                  |        |                     |                            |            |               |  |  |  |  |  |  |    |  |
|                                                                    |                               |                     |                 |                  |        | HG-TOT_DIS-WT       | MEHG-T-GCAF-VA (Methyl Hg) | 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 |                     |                            |            |               |  |  |  |  |  |  |    |  |
| SW16_SW_20241105                                                   | 10.65                         | 6.5                 | 7.9             | 11/05/2024 09:00 | SW     |                     |                            | X          |               |  |  |  |  |  |  | 11 |  |
| SW17_SW_20241105                                                   | 8.45                          | 6.54                | 7.29            | 11/05/2024 10:00 | SW     |                     |                            | X          |               |  |  |  |  |  |  | 11 |  |
| SW02_SW_20241105                                                   | 5.83                          | 6.82                | 5.36            | 11/05/2024 10:30 | SW     |                     |                            | X          |               |  |  |  |  |  |  | 11 |  |
| 1 - TEEPLE CULVERT_MM_20241105                                     |                               |                     |                 | 11/05/2024 11:00 | SW     | X                   | X                          |            |               |  |  |  |  |  |  | 3  |  |
| SW20_SW_20241105                                                   | 5.01                          | 7.1                 | 5.53            | 11/05/2024 11:10 | SW     |                     |                            | X          |               |  |  |  |  |  |  | 12 |  |
| SW20_SW_20241105                                                   | 5.01                          | 7.1                 | 5.53            | 11/05/2024 11:10 | SW     |                     |                            |            | X             |  |  |  |  |  |  | 12 |  |

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2412886**



Telephone : +1 807 623 6463

Number of Containers

Comments

11/7/24

| Signature        |                      | Date/Time | Shipping Details            |  | ATTN | Special Instructions:             |  |
|------------------|----------------------|-----------|-----------------------------|--|------|-----------------------------------|--|
| Shipped by       | 11/7/2024 7:54:00 AM |           | Method of Shipment: Courier |  |      |                                   |  |
| On Ice: yes / no |                      |           | On Ice: yes / no            |  |      |                                   |  |
| Received by      | 11-08-24/9:22        |           | 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<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 11/7/2024 7:54:00 AM<br><b>COC Number:</b> ALS-456033291 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><b>Preservatives</b> |                            |            |               | Mercury - Total and<br>MeHg Bottle<br>SW Kit<br>Ra-226 Bottle |  |  |  |  |  |    |  | <b>Number of Containers</b> | <b>Comments</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------------------------------------------------------|----------------------------|------------|---------------|---------------------------------------------------------------|--|--|--|--|--|----|--|-----------------------------|-----------------|
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | N                                                                    | N                          | N          | N             |                                                               |  |  |  |  |  |    |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                               |  |  |  |  |  |    |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                               |  |  |  |  |  |    |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                               |  |  |  |  |  |    |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                               |  |  |  |  |  |    |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                               |  |  |  |  |  |    |  |                             |                 |
| Sample Code                                                                                                                                                                                                                                                                                                                 | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | HG-TOT_DIS-WT                                                        | MEHG-T-GCAF-VA (Methyl Hg) | NG-SW-P-TB | RA226-MMER-BE |                                                               |  |  |  |  |  |    |  |                             |                 |
| SW28A_SW_20241105                                                                                                                                                                                                                                                                                                           | 10.9                          | 7.7                 | 5.52            | 11/05/2024 11:20 | SW     |                                                                      |                            | X          |               |                                                               |  |  |  |  |  | 11 |  |                             |                 |
| SW06_SW_20241105                                                                                                                                                                                                                                                                                                            | 9.84                          | 7.56                | 5.31            | 11/05/2024 11:40 | SW     |                                                                      |                            | X          |               |                                                               |  |  |  |  |  | 11 |  |                             |                 |
| FB_SW_20241105                                                                                                                                                                                                                                                                                                              |                               |                     |                 | 11/05/2024 12:00 | SW     |                                                                      |                            | X          |               |                                                               |  |  |  |  |  | 11 |  |                             |                 |
| SW10_SW_20241105                                                                                                                                                                                                                                                                                                            | 9.84                          | 7.56                | 5.31            | 11/05/2024 12:00 | SW     |                                                                      |                            | X          |               |                                                               |  |  |  |  |  | 11 |  |                             |                 |
| TB_SW_20241105                                                                                                                                                                                                                                                                                                              |                               |                     |                 | 11/05/2024 12:00 | SW     |                                                                      |                            | X          |               |                                                               |  |  |  |  |  | 11 |  |                             |                 |
| SW23_SW_20241105                                                                                                                                                                                                                                                                                                            | 8.55                          | 7.09                | 5.72            | 11/05/2024 12:05 | SW     |                                                                      |                            | X          |               |                                                               |  |  |  |  |  | 12 |  |                             |                 |

| Signature                                                            | Date/Time            | Shipping Details                                                       | ATTN | Special Instructions:                                                                                          |
|----------------------------------------------------------------------|----------------------|------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|
| <b>Shipped by</b><br>Method of Shipment: Courier<br>On Ice: yes / no | 11/7/2024 7:54:00 AM | Method of Shipment: Courier<br>On Ice: yes / no<br>Shipped: Air/Ground |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |
| <b>Received by</b>                                                   |                      | Lab Name: ALS Thunder Bay<br>Lab Phone:                                |      |                                                                                                                |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 11/7/2024 7:54:00 AM<br><b>COC Number:</b> ALS-456033291 |                               |                     |                 |                  |        | <b>Containers</b><br><br><b>Filtered</b><br><br><b>Preservatives</b> |                            |            |               | Mercury - Total and MeHg Bottle<br>SW Kit<br>Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|----------------------------------------------------------------------|----------------------------|------------|---------------|------------------------------------------------------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | N                                                                    | N                          | N          | N             |                                                            |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                            |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                            |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                            |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                            |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |                                                                      |                            |            |               |                                                            |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                 | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | HG-TOT_DIS-WT                                                        | MEHG-T-GCAF-VA (Methyl Hg) | NG-SW-P-TB | RA226-MMER-BE |                                                            |  |  |  |  |  |    |  |                      |          |
| SW23_SW_20241105                                                                                                                                                                                                                                                                                                            | 8.55                          | 7.09                | 5.72            | 11/05/2024 12:05 | SW     |                                                                      |                            |            | X             |                                                            |  |  |  |  |  | 12 |  |                      |          |
| SW24_SW_20241105                                                                                                                                                                                                                                                                                                            | 10.01                         | 7.45                | 6.54            | 11/05/2024 12:15 | SW     |                                                                      |                            | X          |               |                                                            |  |  |  |  |  | 12 |  |                      |          |
| SW24_SW_20241105                                                                                                                                                                                                                                                                                                            | 10.01                         | 7.45                | 6.54            | 11/05/2024 12:15 | SW     |                                                                      |                            |            | X             |                                                            |  |  |  |  |  | 12 |  |                      |          |
| SW29A_SW_20241105                                                                                                                                                                                                                                                                                                           | 2.87                          | 6.67                | 6.05            | 11/05/2024 12:50 | SW     |                                                                      |                            | X          |               |                                                            |  |  |  |  |  | 11 |  |                      |          |
| SW03_SW_20241105                                                                                                                                                                                                                                                                                                            | 6.98                          | 7.11                | 5.85            | 11/05/2024 13:10 | SW     |                                                                      |                            | X          |               |                                                            |  |  |  |  |  | 11 |  |                      |          |
| SW22A_SW_20241105                                                                                                                                                                                                                                                                                                           | 5.86                          | 7.29                | 5.75            | 11/05/2024 14:10 | SW     |                                                                      |                            | X          |               |                                                            |  |  |  |  |  | 12 |  |                      |          |

| Signature                                                             | Date/Time            | Shipping Details                                               | ATTN | Special Instructions:                                                                                          |
|-----------------------------------------------------------------------|----------------------|----------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|
| <b>Shipped by:</b><br>Method of Shipment: Courier<br>On Ice: yes / no | 11/7/2024 7:54:00 AM | Method of Shipment: Courier<br>On Ice: yes / no                |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |
| <b>Received by:</b>                                                   |                      | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      |                                                                                                                |

|                                                                                                                                                                                                                                                                                                                             |                                      |                            |                        |                      |               |                      |                                   |                            |                      |               |                      |  |  |    |  |                             |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|------------------------|----------------------|---------------|----------------------|-----------------------------------|----------------------------|----------------------|---------------|----------------------|--|--|----|--|-----------------------------|-----------------|
| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 11/7/2024 7:54:00 AM<br><b>COC Number:</b> ALS-456033291 |                                      |                            |                        |                      |               | <b>Containers</b>    |                                   | <b>Mercury - Total and</b> | <b>MeHg Bottle</b>   | <b>SW Kit</b> | <b>Ra-226 Bottle</b> |  |  |    |  | <b>Number of Containers</b> | <b>Comments</b> |
|                                                                                                                                                                                                                                                                                                                             |                                      |                            |                        |                      |               | <b>Filtered</b>      |                                   | <b>N</b>                   | <b>N</b>             | <b>N</b>      | <b>N</b>             |  |  |    |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                             |                                      |                            |                        |                      |               | <b>Preservatives</b> |                                   |                            |                      |               |                      |  |  |    |  |                             |                 |
|                                                                                                                                                                                                                                                                                                                             |                                      |                            |                        |                      |               | <b>HG-TOT_DIS-WT</b> | <b>MEHG-T-GCAF-VA (Methyl Hg)</b> | <b>NG-SW-P-TB</b>          | <b>RA226-MMER-BE</b> |               |                      |  |  |    |  |                             |                 |
| <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> |                      |                                   |                            |                      |               |                      |  |  |    |  |                             |                 |
| SW22A_SW_20241105                                                                                                                                                                                                                                                                                                           | 5.86                                 | 7.29                       | 5.75                   | 11/05/2024 14:10     | SW            |                      |                                   |                            | X                    |               |                      |  |  | 12 |  |                             |                 |
| SW27_SW_20241105                                                                                                                                                                                                                                                                                                            | 4.27                                 | 7.27                       | 4.93                   | 11/05/2024 14:40     | SW            |                      |                                   | X                          |                      |               |                      |  |  | 11 |  |                             |                 |
| SW21A_SW_20241105                                                                                                                                                                                                                                                                                                           | 6.8                                  | 7.31                       | 6.02                   | 11/05/2024 14:55     | SW            |                      |                                   | X                          |                      |               |                      |  |  | 11 |  |                             |                 |
| SW26_SW_20241105                                                                                                                                                                                                                                                                                                            | 11.7                                 | 7.78                       | 5.8                    | 11/05/2024 15:15     | SW            |                      |                                   | X                          |                      |               |                      |  |  | 11 |  |                             |                 |
| SW25_SW_20241105                                                                                                                                                                                                                                                                                                            | 8.6                                  | 7.65                       | 6.2                    | 11/05/2024 15:35     | SW            |                      |                                   | X                          |                      |               |                      |  |  | 11 |  |                             |                 |
| SW15_SW_20241105                                                                                                                                                                                                                                                                                                            | 7.19                                 | 7.04                       | 5.79                   | 11/05/2024 23:15     | SW            |                      |                                   | X                          |                      |               |                      |  |  | 11 |  |                             |                 |

|                                                                                   |                      |                                                                        |             |                                                                                                                |
|-----------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|
| <b>Signature</b>                                                                  | <b>Date/Time</b>     | <b>Shipping Details</b>                                                | <b>ATTN</b> | <b>Special Instructions:</b>                                                                                   |
| <b>Shipped by:</b> [Signature]<br>Method of Shipment: Courier<br>On Ice: yes / no | 11/7/2024 7:54:00 AM | Method of Shipment: Courier<br>On Ice: yes / no<br>Shipped: Air/Ground |             | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |
| <b>Received by:</b> [Signature]                                                   |                      | Lab Name: ALS Thunder Bay<br>Lab Phone:                                |             |                                                                                                                |

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

| Sample Receipt Details (ALS use only)                                                                                                                                                                          |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input checked="" type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input checked="" 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 |
| 5.4, 4.1, 5.4, 2.2, 3.3, 4.8, 4.9                                                                                                                                                                              |                              |

*7x Manual*

| Signature                | Date/Time            | Shipping Details                                               | ATTN | Special Instructions                                  |
|--------------------------|----------------------|----------------------------------------------------------------|------|-------------------------------------------------------|
| Shipped by: [Signature]  | 11/7/2024 7:54:00 AM | Method of Shipment: Courier<br>On Ice: yes / no                |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
| Received by: [Signature] | 11-08-24 / 9:22      | Shipped: Air/Ground<br>Lab Name: ALS Thunder Bay<br>Lab Phone: |      | Email Report to:<br>rainyriver.labresults@newgold.com |

# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                                        |                                     |                                            |
|----------------------------------------------|--------------------------------------------------------|-------------------------------------|--------------------------------------------|
| Priority/Emergency Service Requested         | YES                                                    | <input checked="" type="radio"/> NO |                                            |
| Time Sensitive Hold Time                     | YES                                                    | <input checked="" type="radio"/> NO |                                            |
| Client:                                      | NGRR                                                   |                                     |                                            |
| SAMPLE RECEIPT INFORMATION                   |                                                        |                                     |                                            |
| Mode of Delivery:                            | <input checked="" type="radio"/> Courier               | <input type="radio"/> Drop Off      |                                            |
| Courier                                      | Menitaulin                                             |                                     |                                            |
| Waybill Number                               | 3303464829                                             |                                     |                                            |
| Temperatures                                 | 5.4 4.1 5.4 12.2 3.3 4.8 4.9                           | Cooler Count                        | 7                                          |
| Cooling Method                               | None                                                   | Ice                                 | <input checked="" type="radio"/> Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                                        |                                     |                                            |
| Matrix:                                      | <input checked="" type="radio"/> Water                 | <input type="radio"/> Soil          | <input type="radio"/> Air                  |
|                                              | <input type="radio"/> Biota                            | <input type="radio"/> Other         |                                            |
| DW Schedule 24 Bottles Correct?              | Yes                                                    | No                                  |                                            |
| DW Metals pH Check <2                        | Yes                                                    | No                                  |                                            |
| Regulation Circled, Works # present          | Yes                                                    | No - Reject?                        |                                            |
| # of Bottles:                                | 12                                                     | Sample Count                        | 24                                         |
| Green/white                                  | 20 WA                                                  | 23 BOD x 19                         |                                            |
| Purple/white                                 | 38 x NUTS                                              | 19 x DOC                            |                                            |
| Warm red/white                               | 19 x Tmet                                              | 19 x Dmet 4 x Re226                 |                                            |
| Yellow/black                                 | 20 THg                                                 | 19 DHg 6 MetHc                      |                                            |
| Light blue/white                             |                                                        |                                     |                                            |
| Orange/black                                 |                                                        |                                     |                                            |
| Others (detail)                              | 19 x 2 06167<br>19 x CN<br>*See back for MetHc + Re226 |                                     |                                            |
| Comments on Samples and Bottles:             | -001 10f 06167 "SW15"                                  |                                     |                                            |
| Samples Requiring Preservation or Filtering: |                                                        |                                     |                                            |
| Layout Staff Initials                        |                                                        |                                     |                                            |
| Date and Time of Layout                      | MM 8 Nov 24 1146                                       |                                     |                                            |

| ACCOUNT INFO VERIFICATION                                        |                                      |                                     |
|------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| Priority/Emergency Service Requested                             | YES                                  | <input checked="" type="radio"/> NO |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |                                      |                                     |
| Client                                                           | Work Contact                         | Quote                               |
| RECEIPT DETAIL                                                   |                                      |                                     |
| Project                                                          | PO                                   | Site/LSD                            |
| Overall Description Entered                                      | Yes                                  | <input checked="" type="radio"/> NA |
| Received date/time as per COC                                    |                                      |                                     |
| Recipients match CoC or Sample Remarks                           | <input checked="" type="radio"/> Yes | No                                  |
| Billing Instruction added to remarks                             | <input checked="" type="radio"/> Yes | NA                                  |
| Sample Remarks/Specification Doc checked                         | <input checked="" type="radio"/>     |                                     |
| Submission Issues communicated                                   | Yes                                  | <input checked="" type="radio"/> NA |
| Sample Info communicated via Remarks                             | Yes                                  | <input checked="" type="radio"/> NA |
| VERIFICATION CHECKLIST                                           |                                      |                                     |
| Planned Event Submission                                         | <input checked="" type="radio"/> Yes | No                                  |
| Sample Name entered as per CoC                                   | <input checked="" type="radio"/>     |                                     |
| Sampling Date and time entered as per CoC                        | <input checked="" type="radio"/>     |                                     |
| Containers selected in layout order                              | <input checked="" type="radio"/>     |                                     |
| Sales items entered from QUOTE ONLY (and/or verified as correct) | <input checked="" type="radio"/>     |                                     |
| Field Data/EC298A removed if not on COC                          | <input checked="" type="radio"/> Yes | <input checked="" type="radio"/> NA |
| Bottle Allocation Verified                                       | <input checked="" type="radio"/>     |                                     |
| Guideline added or auto allocated                                | <input checked="" type="radio"/>     |                                     |
| Due dates updated                                                | <input checked="" type="radio"/>     |                                     |
| VALIDATION                                                       |                                      |                                     |
| Validation errors resolved?                                      | <input checked="" type="radio"/> Yes | No                                  |
| Internal Sublet CoC created                                      | <input checked="" type="radio"/> Yes | NA                                  |
| Login Comments:                                                  |                                      |                                     |
| Login Staff Initials:                                            | MM                                   |                                     |

MM 8/11/24

## CERTIFICATE OF ANALYSIS

|                                |                                                      |                                |                                                       |
|--------------------------------|------------------------------------------------------|--------------------------------|-------------------------------------------------------|
| <b>Work Order</b>              | : <b>TY2413953</b>                                   |                                |                                                       |
| <b>Client</b>                  | : <b>New Gold Inc. (Rainy River)</b>                 | <b>Laboratory</b>              | : ALS Environmental - Thunder Bay                     |
| <b>Contact</b>                 | : Garnet.Cornell@newgold.com Garnet Cornell          | <b>Account Manager</b>         | : Christine Paradis                                   |
| <b>Address</b>                 | : 24 Marr Rd.<br>Barwick Ontario Canada P0W 1A0      | <b>Address</b>                 | : 1081 Barton Street<br>Thunder Bay ON Canada P7B 5N3 |
| <b>Telephone</b>               | : 807 234 8170                                       | <b>Telephone</b>               | : +1 807 623 6463                                     |
| <b>Project</b>                 | : Surface Water                                      | <b>Date Samples Received</b>   | : 05-Dec-2024 12:00                                   |
| <b>PO</b>                      | : 4700003796                                         | <b>Date Analysis Commenced</b> | : 06-Dec-2024                                         |
| <b>C-O-C number</b>            | : ----                                               | <b>Issue Date</b>              | : 31-Dec-2024 13:16                                   |
| <b>Sampler</b>                 | : ----                                               |                                |                                                       |
| <b>Site</b>                    | : New Gold Inc. (Rainy River)                        |                                |                                                       |
| <b>Quote number</b>            | : New Gold Rainy River Project - Pick a Project 2024 |                                |                                                       |
| <b>No. of samples received</b> | : 19                                                 |                                |                                                       |
| <b>No. of samples analysed</b> | : 19                                                 |                                |                                                       |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i>   | <i>Position</i>                        | <i>Laboratory Department</i>                     |
|----------------------|----------------------------------------|--------------------------------------------------|
| Cassandra Grzelewski | Team Leader - Inorganics               | Inorganics, Thunder Bay, Ontario                 |
| Cassandra Grzelewski | Team Leader - Inorganics               | Metals, Thunder Bay, Ontario                     |
| Cassandra Grzelewski | Team Leader - Inorganics               | Administration, Thunder Bay, Ontario             |
| Greg Pokocky         | Manager - Inorganics                   | Metals, Waterloo, Ontario                        |
| Jon Fisher           | Production Manager, Environmental      | Inorganics, Waterloo, Ontario                    |
| Jon Fisher           | Production Manager, Environmental      | Metals, Waterloo, Ontario                        |
| Madison Mancusa      | Laboratory Analyst                     | Administration, Thunder Bay, Ontario             |
| Nik Perkio           | Senior Analyst                         | Metals, Waterloo, Ontario                        |
| Rachel Cameron       | Supervisor - Semi-Volatile Extractions | Organics, Waterloo, Ontario                      |
| Rhiannon Scheffee    | Project Manager                        | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Metals, Thunder Bay, Ontario                     |
| Shannon Veltri       | Supervisor - Water Chemistry           | Inorganics, Thunder Bay, Ontario                 |
| Taelur Kachur        | Account Manager                        | External Subcontracting, Saskatoon, Saskatchewan |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit     | Description                     |
|----------|---------------------------------|
| -        | no units                        |
| °C       | degrees celsius                 |
| Bq/L     | becquerels per litre            |
| CU       | colour units (1 cu = 1 mg/l pt) |
| mg/L     | milligrams per litre            |
| NTU      | nephelometric turbidity units   |
| pH units | pH units                        |
| µS/cm    | microsiemens per centimetre     |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.





## Qualifiers

| Qualifier | Description                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------|
| < T       | A measureable trace amount: Interpret with caution.                                                    |
| DLM       | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| RRV       | Reported result verified by repeat analysis.                                                           |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                   |            |              |        |          | Client sample ID | SW22A_SW_2024<br>1203<br>SW | SW23_SW_202412<br>03<br>SW | SW24_SW_202412<br>03<br>SW | SW27_SW_2024120<br>3<br>SW | SW21A_SW_20241<br>203<br>SW |
|-----------------------------------|------------|--------------|--------|----------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time       |            |              |        |          |                  | 03-Dec-2024 09:45           | 03-Dec-2024 10:00          | 03-Dec-2024 10:25          | 03-Dec-2024 10:25          | 03-Dec-2024 10:35           |
| Analyte                           | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2413953-001               | TY2413953-002              | TY2413953-003              | TY2413953-004              | TY2413953-005               |
|                                   |            |              |        |          |                  | Result                      | Result                     | Result                     | Result                     | Result                      |
| Field Tests                       |            |              |        |          |                  |                             |                            |                            |                            |                             |
| Oxygen, dissolved, field          | ----       | EF001/TY     | 0.01   | mg/L     |                  | 5.49                        | 6.79                       | 7.11                       | 7.16                       | 5.12                        |
| pH, field                         | ----       | EF001/TY     | 0.10   | pH units |                  | 6.92                        | 7.14                       | 7.27                       | 7.47                       | 7.05                        |
| Temperature, field                | ----       | EF001/TY     | 0.10   | °C       |                  | 0.16                        | 0.14                       | 0.14                       | 0.09                       | 0.20                        |
| Physical Tests                    |            |              |        |          |                  |                             |                            |                            |                            |                             |
| Acidity (as CaCO3)                | ----       | E283/TY      | 2.0    | mg/L     |                  | 7.5                         | 6.7                        | 5.8                        | 2.8                        | 6.2                         |
| Colour, true                      | ----       | E329-L/TY    | 2.0    | CU       |                  | 85.7                        | 138                        | 141                        | 72.3                       | 89.8                        |
| Conductivity                      | ----       | E100/TY      | 1.0    | µS/cm    |                  | 323                         | 495                        | 496                        | 363                        | 312                         |
| Hardness (as CaCO3), dissolved    | ----       | EC100/TY     | 0.50   | mg/L     |                  | 164                         | 208                        | 203                        | 191                        | 151                         |
| pH                                | ----       | E108/TY      | 0.10   | pH units |                  | 7.69                        | 7.67                       | 7.69                       | 7.95                       | 7.62                        |
| Solids, total dissolved [TDS]     | ----       | E162/TY      | 10     | mg/L     |                  | 227                         | 346                        | 353                        | 238                        | 217                         |
| Solids, total suspended [TSS]     | ----       | E160/TY      | 3.0    | mg/L     |                  | 6.1                         | 4.5                        | 4.1                        | 3.7                        | <3.0                        |
| Turbidity                         | ----       | E121/TY      | 0.10   | NTU      |                  | 3.69                        | 4.62                       | 5.37                       | 2.87                       | 2.84                        |
| Alkalinity, total (as CaCO3)      | ----       | E290/TY      | 2.0    | mg/L     |                  | 168                         | 118                        | 119                        | 196                        | 168                         |
| Anions and Nutrients              |            |              |        |          |                  |                             |                            |                            |                            |                             |
| Ammonia, total (as N)             | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | 0.0249 <sup>&lt;T</sup>     | 0.0372 <sup>&lt;T</sup>    | 0.0398 <sup>&lt;T</sup>    | 0.0194 <sup>&lt;T</sup>    | 0.0269 <sup>&lt;T</sup>     |
| Ammonia, un-ionized (as N), field | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010                     | <0.0010                    | <0.0010                    | <0.0010                    | <0.0010                     |
| Chloride                          | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 17.0                        | 13.9                       | 14.0                       | 13.4                       | 17.6                        |
| Fluoride                          | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.026                       | 0.034                      | 0.046                      | 0.051                      | 0.036                       |
| Kjeldahl nitrogen, total [TKN]    | ----       | E318/TY      | 0.050  | mg/L     |                  | 0.976                       | 1.08                       | 1.12                       | 0.817                      | 0.961                       |
| Nitrate (as N)                    | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | 0.021 <sup>&lt;T</sup>      | 0.206 <sup>&lt;T</sup>     | 0.214 <sup>&lt;T</sup>     | 0.039 <sup>&lt;T</sup>     | 0.025 <sup>&lt;T</sup>      |
| Nitrite (as N)                    | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     |                  | <0.010                      | <0.010                     | <0.010                     | <0.010                     | <0.010                      |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |             |           |      | Client sample ID | SW22A_SW_2024<br>1203<br>SW | SW23_SW_202412<br>03<br>SW | SW24_SW_202412<br>03<br>SW | SW27_SW_2024120<br>3<br>SW | SW21A_SW_20241<br>203<br>SW |
|------------------------------------------|------------|-------------|-----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time              |            |             |           |      |                  | 03-Dec-2024 09:45           | 03-Dec-2024 10:00          | 03-Dec-2024 10:25          | 03-Dec-2024 10:25          | 03-Dec-2024 10:35           |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit |                  | TY2413953-001               | TY2413953-002              | TY2413953-003              | TY2413953-004              | TY2413953-005               |
|                                          |            |             |           |      |                  | Result                      | Result                     | Result                     | Result                     | Result                      |
| Anions and Nutrients                     |            |             |           |      |                  |                             |                            |                            |                            |                             |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L |                  | 0.0317                      | 0.0040                     | 0.0041                     | 0.0047                     | 0.0166                      |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L |                  | 9.91                        | 121                        | 121                        | 23.0                       | 5.66                        |
| Cyanides                                 |            |             |           |      |                  |                             |                            |                            |                            |                             |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L |                  | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                     |
| Organic / Inorganic Carbon               |            |             |           |      |                  |                             |                            |                            |                            |                             |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L |                  | 25.6                        | 32.0                       | 32.4                       | 23.7                       | 27.6                        |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L |                  | 26.0                        | 32.0                       | 32.3                       | 23.6                       | 26.9                        |
| Total Metals                             |            |             |           |      |                  |                             |                            |                            |                            |                             |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L |                  | 0.117                       | 0.205                      | 0.246                      | 0.123                      | 0.0964                      |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L |                  | <0.00010                    | 0.00150 <sup>&lt;T</sup>   | 0.00136 <sup>&lt;T</sup>   | 0.00011 <sup>&lt;T</sup>   | <0.00010                    |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L |                  | 0.00082 <sup>&lt;T</sup>    | 0.00102 <sup>&lt;T</sup>   | 0.00108 <sup>&lt;T</sup>   | 0.00097 <sup>&lt;T</sup>   | 0.00079 <sup>&lt;T</sup>    |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L |                  | 0.0198                      | 0.0252                     | 0.0239                     | 0.0213                     | 0.0187                      |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                  | <0.000020                  | 0.000020                   | <0.000020                   |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                   |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L |                  | 0.013 <sup>&lt;T</sup>      | 0.035 <sup>&lt;T</sup>     | 0.029 <sup>&lt;T</sup>     | 0.014 <sup>&lt;T</sup>     | 0.014 <sup>&lt;T</sup>      |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L |                  | 0.0000110 <sup>&lt;T</sup>  | 0.0000098 <sup>&lt;T</sup> | 0.0000080 <sup>&lt;T</sup> | 0.0000100 <sup>&lt;T</sup> | 0.0000050                   |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L |                  | 35.9                        | 60.5                       | 50.3                       | 42.7                       | 32.9                        |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L |                  | 0.000015                    | 0.000035                   | 0.000038                   | 0.000022                   | 0.000013                    |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L |                  | 0.00050                     | <0.00050                   | 0.00055 <sup>&lt;T</sup>   | <0.00050                   | <0.00050                    |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW22A_SW_2024<br>1203<br>SW | SW23_SW_202412<br>03<br>SW | SW24_SW_202412<br>03<br>SW | SW27_SW_2024120<br>3<br>SW | SW21A_SW_20241<br>203<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 09:45           | 03-Dec-2024 10:00          | 03-Dec-2024 10:25          | 03-Dec-2024 10:25          | 03-Dec-2024 10:35           |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-001               | TY2413953-002              | TY2413953-003              | TY2413953-004              | TY2413953-005               |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                     | Result                     | Result                      |
| Total Metals                |            |            |           |      |                  |                             |                            |                            |                            |                             |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L |                  | 0.00024 <T                  | 0.00050 <T                 | 0.00048 <T                 | 0.00016 <T                 | 0.00024 <T                  |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | 0.00111 <T                  | 0.00140 <T                 | 0.00133 <T                 | 0.00098 <T                 | 0.00071 <T                  |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | 0.410                       | 0.514                      | 0.509                      | 0.304                      | 0.414                       |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | 0.000156 <T                 | 0.000159 <T                | 0.000135 <T                | 0.000187 <T                | 0.000060 <T                 |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | 0.0051 <T                   | 0.0076 <T                  | 0.0067 <T                  | 0.0040 <T                  | 0.0050 <T                   |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | 15.8                        | 17.0                       | 17.1                       | 17.1                       | 15.6                        |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | 0.0934                      | 0.0680                     | 0.0656                     | 0.0436                     | 0.0888                      |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                  |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | 0.000484 <T                 | 0.00212 <T                 | 0.00187 <T                 | 0.000499 <T                | 0.000438 <T                 |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | 0.00151 <T                  | 0.00210 <T                 | 0.00197 <T                 | 0.00107 <T                 | 0.00139 <T                  |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050                      | <0.050                     | <0.050                     | <0.050                     | <0.050                      |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | 2.78                        | 9.58                       | 9.37                       | 2.44                       | 2.78                        |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00251                     | 0.00590                    | 0.00579                    | 0.00186                    | 0.00277                     |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | 0.000151 <T                 | 0.000241 <T                | 0.000204 <T                | 0.000141 <T                | 0.000152 <T                 |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | 5.39                        | 5.72                       | 5.68                       | 3.73                       | 5.73                        |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | 7.87                        | 23.3                       | 21.9                       | 6.14                       | 8.35                        |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | 0.0865                      | 0.247                      | 0.204                      | 0.0989                     | 0.0833                      |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | 4.13                        | 45.4                       | 44.9                       | 8.66                       | 2.49                        |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                    |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | <0.000010                   | 0.000012 <T                | <0.000010                  | <0.000010                  | <0.000010                   |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW22A_SW_2024<br>1203<br>SW | SW23_SW_202412<br>03<br>SW | SW24_SW_202412<br>03<br>SW | SW27_SW_2024120<br>3<br>SW | SW21A_SW_20241<br>203<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 09:45           | 03-Dec-2024 10:00          | 03-Dec-2024 10:25          | 03-Dec-2024 10:25          | 03-Dec-2024 10:35           |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-001               | TY2413953-002              | TY2413953-003              | TY2413953-004              | TY2413953-005               |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                     | Result                     | Result                      |
| Total Metals                |            |            |           |      |                  |                             |                            |                            |                            |                             |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | 0.00465                     | 0.00749                    | 0.00930                    | 0.00497                    | <0.00489 <sup>DLM</sup>     |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | 0.000553 <sup>&lt;T</sup>   | 0.000782 <sup>&lt;T</sup>  | 0.000697 <sup>&lt;T</sup>  | 0.00127 <sup>&lt;T</sup>   | 0.000361 <sup>&lt;T</sup>   |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | 0.00078                     | 0.00111                    | 0.00120                    | 0.00079                    | 0.00073                     |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | 0.0042 <sup>&lt;T</sup>     | <0.0030                    | <0.0030                    | 0.0075 <sup>&lt;T</sup>    | <0.0030                     |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00030                     | 0.00047                    | 0.00049                    | 0.00027                    | 0.00028                     |
| Dissolved Metals            |            |            |           |      |                  |                             |                            |                            |                            |                             |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | 0.0111                      | 0.0441                     | 0.0474                     | 0.0092                     | 0.0118                      |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                    | 0.00136                    | 0.00132                    | <0.00010                   | <0.00010                    |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | 0.00073                     | 0.00087                    | 0.00094                    | 0.00081                    | 0.00068                     |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | 0.0187                      | 0.0242                     | 0.0234                     | 0.0213                     | 0.0186                      |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020                   | <0.000020                  | <0.000020                  | <0.000020                  | <0.000020                   |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                   |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | 0.014                       | 0.031                      | 0.031                      | 0.015                      | 0.014                       |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | <0.0000050                  | 0.0000080                  | 0.0000060                  | <0.0000050                 | <0.0000050                  |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | 38.7                        | 55.8                       | 53.8                       | 47.2                       | 35.5                        |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | 0.000011                   | 0.000011                   | <0.000010                  | <0.000010                   |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050                    | <0.00050                   | <0.00050                   | <0.00050                   | <0.00050                    |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | 0.00016                     | 0.00038                    | 0.00038                    | 0.00011                    | 0.00018                     |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW22A_SW_2024<br>1203<br>SW | SW23_SW_202412<br>03<br>SW | SW24_SW_202412<br>03<br>SW | SW27_SW_2024120<br>3<br>SW | SW21A_SW_20241<br>203<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 09:45           | 03-Dec-2024 10:00          | 03-Dec-2024 10:25          | 03-Dec-2024 10:25          | 03-Dec-2024 10:35           |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-001               | TY2413953-002              | TY2413953-003              | TY2413953-004              | TY2413953-005               |
|                             |            |            |           |      |                  | Result                      | Result                     | Result                     | Result                     | Result                      |
| Dissolved Metals            |            |            |           |      |                  |                             |                            |                            |                            |                             |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00072                     | 0.00118                    | 0.00117                    | 0.00085                    | 0.00065                     |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | 0.204                       | 0.269                      | 0.272                      | 0.138                      | 0.229                       |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                   | 0.000056                   | 0.000059                   | 0.000057                   | <0.000050                   |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | 0.0057                      | 0.0078                     | 0.0074                     | 0.0052                     | 0.0060                      |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | 16.4                        | 16.8                       | 16.7                       | 17.8                       | 15.2                        |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | 0.0593                      | 0.0555                     | 0.0566                     | 0.0250                     | 0.0748                      |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                  |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | 0.000457                    | 0.00188                    | 0.00182                    | 0.000494                   | 0.000455                    |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | 0.00121                     | 0.00176                    | 0.00176                    | 0.00092                    | 0.00121                     |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050                      | <0.050                     | <0.050                     | <0.050                     | <0.050                      |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | 2.79                        | 9.94                       | 9.67                       | 2.56                       | 2.75                        |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | 0.00222                     | 0.00550                    | 0.00539                    | 0.00161                    | 0.00240                     |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | 0.000132                    | 0.000200                   | 0.000217                   | 0.000139                   | 0.000177                    |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 5.12                        | 5.19                       | 5.30                       | 3.64                       | 5.61                        |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 7.90                        | 22.2                       | 21.9                       | 6.21                       | 8.11                        |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | 0.0908                      | 0.219                      | 0.210                      | 0.102                      | 0.0832                      |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | 3.77                        | 42.8                       | 43.8                       | 9.68                       | 2.40                        |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                    |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                   |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |            |          |      | Client sample ID | SW22A_SW_2024<br>1203<br>SW | SW23_SW_202412<br>03<br>SW | SW24_SW_202412<br>03<br>SW | SW27_SW_2024120<br>3<br>SW | SW21A_SW_20241<br>203<br>SW |
|---------------------------------------|------------|------------|----------|------|------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Client sampling date / time           |            |            |          |      |                  | 03-Dec-2024 09:45           | 03-Dec-2024 10:00          | 03-Dec-2024 10:25          | 03-Dec-2024 10:25          | 03-Dec-2024 10:35           |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2413953-001               | TY2413953-002              | TY2413953-003              | TY2413953-004              | TY2413953-005               |
|                                       |            |            |          |      |                  | Result                      | Result                     | Result                     | Result                     | Result                      |
| Dissolved Metals                      |            |            |          |      |                  |                             |                            |                            |                            |                             |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L |                  | 0.00068                     | 0.00158                    | 0.00167                    | 0.00078                    | 0.00077                     |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L |                  | <0.00010                    | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                    |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L |                  | 0.000521                    | 0.000669                   | 0.000710                   | 0.00129                    | 0.000351                    |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L |                  | <0.00050                    | 0.00052                    | <0.00050                   | <0.00050                   | <0.00050                    |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L |                  | 0.0022                      | 0.0011                     | <0.0010                    | 0.0051                     | 0.0012                      |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L |                  | <0.00030                    | <0.00030                   | <0.00030                   | <0.00030                   | <0.00030                    |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    |                  | Laboratory                  | Laboratory                 | Laboratory                 | Laboratory                 | Laboratory                  |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    |                  | Laboratory                  | Laboratory                 | Laboratory                 | Laboratory                 | Laboratory                  |
| Aggregate Organics                    |            |            |          |      |                  |                             |                            |                            |                            |                             |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L |                  | <2.0                        | <2.0                       | <2.0                       | <2.0                       | <2.0                        |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L |                  | 65                          | 81                         | 83                         | 63                         | 72                          |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L |                  | <1.0                        | <1.0                       | <1.0                       | <1.0                       | <1.0                        |
| Radiological Parameters               |            |            |          |      |                  |                             |                            |                            |                            |                             |
| Radium-226                            | 13982-63-3 | Ra-226/2I  | 0.005    | Bq/L |                  | 0.006                       | <0.005                     | 0.006                      | ----                       | ----                        |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                             |            |              |        |          | Client sample ID | SW26_SW_20241<br>203<br>SW | SW15_SW_202412<br>03<br>SW | SW25_SW_202412<br>03<br>SW | SW17_SW_2024120<br>3<br>SW | SW02_SW_202412<br>03<br>SW |
|---------------------------------------------|------------|--------------|--------|----------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time                 |            |              |        |          |                  | 03-Dec-2024 11:00          | 03-Dec-2024 11:15          | 03-Dec-2024 11:30          | 03-Dec-2024 11:45          | 03-Dec-2024 11:50          |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2413953-006              | TY2413953-007              | TY2413953-008              | TY2413953-009              | TY2413953-010              |
|                                             |            |              |        |          |                  | Result                     | Result                     | Result                     | Result                     | Result                     |
| Field Tests                                 |            |              |        |          |                  |                            |                            |                            |                            |                            |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     |                  | 7.88                       | 7.66                       | 5.65                       | 9.5                        | 5.67                       |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units |                  | 7.65                       | 7.40                       | 7.70                       | 7.62                       | 6.99                       |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       |                  | 0.11                       | 0.21                       | 0.09                       | 0.29                       | 0.66                       |
| Physical Tests                              |            |              |        |          |                  |                            |                            |                            |                            |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     |                  | <2.0                       | 5.3                        | 2.3                        | 3.9                        | 6.5                        |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       |                  | 81.2                       | 201                        | 85.5                       | 81.3                       | 163                        |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    |                  | 320                        | 379                        | 301                        | 119                        | 130                        |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     |                  | 162                        | 164                        | 153                        | 52.1                       | 73.8                       |
| pH                                          | ----       | E108/TY      | 0.10   | pH units |                  | 8.04                       | 7.69                       | 8.01                       | 7.63                       | 7.39                       |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     |                  | 198                        | 298                        | 203                        | 90                         | 124                        |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     |                  | <3.0                       | 13.1                       | 5.3                        | <3.0                       | 4.9                        |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      |                  | 3.01                       | 12.5                       | 4.29                       | 3.81                       | 1.56                       |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     |                  | 161                        | 97.2                       | 150                        | 45.5                       | 68.7                       |
| Anions and Nutrients                        |            |              |        |          |                  |                            |                            |                            |                            |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     |                  | 0.0137 <sup>&lt;T</sup>    | 0.0308 <sup>&lt;T</sup>    | 0.0184 <sup>&lt;T</sup>    | 0.0185 <sup>&lt;T</sup>    | 0.0160 <sup>&lt;T</sup>    |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     |                  | <0.0010                    | <0.0010                    | <0.0010                    | <0.0010                    | <0.0010                    |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     |                  | 12.2                       | 9.55                       | 11.7                       | 3.44                       | 0.62                       |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     |                  | 0.038                      | 0.037                      | 0.043                      | 0.033                      | <0.020                     |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     |                  | 0.811                      | 1.07                       | 0.839                      | 0.641                      | 0.999                      |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     |                  | 0.045 <sup>&lt;T</sup>     | 0.191 <sup>&lt;T</sup>     | 0.050 <sup>&lt;T</sup>     | 0.042 <sup>&lt;T</sup>     | <0.020                     |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     |                  | <0.010                     | <0.010                     | <0.010                     | <0.010                     | <0.010                     |





## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

|                                          |            |             |           |      | Client sample ID | SW26_SW_20241<br>203<br>SW | SW15_SW_202412<br>03<br>SW | SW25_SW_202412<br>03<br>SW | SW17_SW_2024120<br>3<br>SW | SW02_SW_202412<br>03<br>SW |
|------------------------------------------|------------|-------------|-----------|------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |             |           |      |                  | 03-Dec-2024 11:00          | 03-Dec-2024 11:15          | 03-Dec-2024 11:30          | 03-Dec-2024 11:45          | 03-Dec-2024 11:50          |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit |                  | TY2413953-006              | TY2413953-007              | TY2413953-008              | TY2413953-009              | TY2413953-010              |
|                                          |            |             |           |      |                  | Result                     | Result                     | Result                     | Result                     | Result                     |
| Anions and Nutrients                     |            |             |           |      |                  |                            |                            |                            |                            |                            |
| Phosphate, ortho-, dissolved (as P)      | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L |                  | 0.0025                     | 0.0034                     | 0.0026                     | 0.0015                     | <0.0010                    |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L |                  | 16.6                       | 83.3                       | 13.6                       | 8.41                       | 0.45                       |
| Cyanides                                 |            |             |           |      |                  |                            |                            |                            |                            |                            |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L |                  | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |             |           |      |                  |                            |                            |                            |                            |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L |                  | 24.4                       | 40.3                       | 25.3                       | 19.3                       | 35.2                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L |                  | 24.3                       | 41.4                       | 25.2                       | 18.9                       | 35.2                       |
| Total Metals                             |            |             |           |      |                  |                            |                            |                            |                            |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L |                  | 0.0948                     | 0.657                      | 0.142                      | 0.149                      | 0.0562                     |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L |                  | 0.00010                    | 0.00092 <T                 | <0.00010                   | <0.00010                   | <0.00010                   |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L |                  | 0.00103 <T                 | 0.00120 <T                 | 0.00093 <T                 | 0.00072 <T                 | 0.00081 <T                 |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L |                  | 0.0188                     | 0.0235                     | 0.0182                     | 0.0127                     | 0.00961                    |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L |                  | <0.000020                  | <0.000040 DLM              | <0.000020                  | <0.000020                  | <0.000020                  |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L |                  | <0.000050                  | <0.000100 DLM              | <0.000050                  | <0.000050                  | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L |                  | 0.013 <T                   | 0.024 <T                   | 0.012 <T                   | <0.010                     | <0.010                     |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L |                  | 0.0000060 <T               | 0.0000200 <T               | 0.0000070 <T               | 0.0000080 <T               | <0.0000050                 |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L |                  | 38.6                       | 40.6                       | 36.6                       | 12.3                       | 18.1                       |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L |                  | 0.000012                   | 0.000087                   | 0.000020                   | 0.000017                   | <0.000010                  |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L |                  | <0.00050                   | 0.00150 <T                 | 0.00052 <T                 | <0.00050                   | <0.00050                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW26_SW_20241<br>203<br>SW | SW15_SW_202412<br>03<br>SW | SW25_SW_202412<br>03<br>SW | SW17_SW_2024120<br>3<br>SW | SW02_SW_202412<br>03<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 11:00          | 03-Dec-2024 11:15          | 03-Dec-2024 11:30          | 03-Dec-2024 11:45          | 03-Dec-2024 11:50          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-006              | TY2413953-007              | TY2413953-008              | TY2413953-009              | TY2413953-010              |
|                             |            |            |           |      |                  | Result                     | Result                     | Result                     | Result                     | Result                     |
| Total Metals                |            |            |           |      |                  |                            |                            |                            |                            |                            |
| Cobalt, total               | 7440-48-4  | E420/TY    | 0.00010   | mg/L |                  | 0.00012 <T                 | 0.00061 <T                 | 0.00019 <T                 | 0.00011 <T                 | 0.00030 <T                 |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | 0.00083 <T                 | 0.00165 <T                 | 0.00080 <T                 | 0.00096 <T                 | <0.00050                   |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | 0.273                      | 1.08                       | 0.359                      | 0.282                      | 0.457                      |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | 0.000112 <T                | 0.000417 <T                | 0.000157 <T                | 0.000113 <T                | 0.000166 <T                |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | 0.0035 <T                  | 0.0068 <T                  | 0.0034 <T                  | 0.0012 <T                  | 0.0014 <T                  |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | 14.7                       | 15.2                       | 13.8                       | 4.54                       | 7.07                       |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | 0.0130                     | 0.0617                     | 0.0310                     | 0.0195                     | 0.176                      |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | 0.000489 <T                | 0.00129 <T                 | 0.000438 <T                | 0.000238 <T                | 0.000053 <T                |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | 0.00097 <T                 | 0.00222 <T                 | 0.00098 <T                 | 0.00076 <T                 | <0.00050                   |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050                     | <0.100 DLM                 | <0.050                     | <0.050                     | <0.050                     |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | 2.21                       | 6.88                       | 2.18                       | 1.19                       | 1.04                       |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00188                    | 0.00517                    | 0.00209                    | 0.00220                    | 0.00184                    |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | 0.000166 <T                | 0.000202 <T                | 0.000126 <T                | 0.000142 <T                | 0.000127 <T                |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | 3.42                       | 6.73                       | 3.36                       | 2.56                       | 5.51                       |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000020 DLM              | <0.000010                  | <0.000010                  | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | 4.91                       | 15.7                       | 4.77                       | 4.54                       | 0.939                      |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | 0.0921                     | 0.155                      | 0.0823                     | 0.0340                     | 0.0264                     |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | 6.41                       | 30.6                       | 5.18                       | 3.20                       | <0.50                      |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020                   | <0.00040 DLM               | <0.00020                   | <0.00020                   | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000020 DLM              | <0.000010                  | <0.000010                  | <0.000010                  |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW26_SW_20241<br>203<br>SW | SW15_SW_202412<br>03<br>SW | SW25_SW_202412<br>03<br>SW | SW17_SW_2024120<br>3<br>SW | SW02_SW_202412<br>03<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 11:00          | 03-Dec-2024 11:15          | 03-Dec-2024 11:30          | 03-Dec-2024 11:45          | 03-Dec-2024 11:50          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-006              | TY2413953-007              | TY2413953-008              | TY2413953-009              | TY2413953-010              |
|                             |            |            |           |      |                  | Result                     | Result                     | Result                     | Result                     | Result                     |
| Total Metals                |            |            |           |      |                  |                            |                            |                            |                            |                            |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                   | <0.00010                   |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                   | <0.00010                   |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | 0.00361                    | 0.0251                     | 0.00438                    | 0.00446                    | 0.00114                    |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00020 <sup>DLM</sup>    | <0.00010                   | <0.00010                   | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | 0.00108 <sup>&lt;T</sup>   | 0.000807 <sup>&lt;T</sup>  | 0.000959 <sup>&lt;T</sup>  | 0.000195 <sup>&lt;T</sup>  | 0.000045 <sup>&lt;T</sup>  |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | 0.00066                    | 0.00238                    | 0.00075                    | 0.00076                    | <0.00050                   |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | 0.0066 <sup>&lt;T</sup>    | <0.0060 <sup>DLM</sup>     | 0.0060 <sup>&lt;T</sup>    | <0.0030                    | <0.0030                    |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020                   | 0.00072                    | 0.00023                    | 0.00022                    | <0.00020                   |
| Dissolved Metals            |            |            |           |      |                  |                            |                            |                            |                            |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | 0.0111                     | 0.0848                     | 0.0119                     | 0.0405                     | 0.0326                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                   | 0.00094                    | <0.00010                   | <0.00010                   | <0.00010                   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | 0.00090                    | 0.00095                    | 0.00082                    | 0.00058                    | 0.00071                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | 0.0185                     | 0.0208                     | 0.0175                     | 0.0123                     | 0.00939                    |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020                  | <0.000020                  | <0.000020                  | <0.000020                  | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                  | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | 0.014                      | 0.025                      | 0.013                      | <0.010                     | <0.010                     |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | <0.0000050                 | 0.0000100                  | <0.0000050                 | 0.0000060                  | 0.0000050                  |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | 41.0                       | 42.5                       | 39.0                       | 13.4                       | 17.7                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050                   | <0.00050                   | <0.00050                   | <0.00050                   | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                   | 0.00029                    | <0.00010                   | <0.00010                   | 0.00023                    |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW26_SW_20241<br>203<br>SW | SW15_SW_202412<br>03<br>SW | SW25_SW_202412<br>03<br>SW | SW17_SW_2024120<br>3<br>SW | SW02_SW_202412<br>03<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 11:00          | 03-Dec-2024 11:15          | 03-Dec-2024 11:30          | 03-Dec-2024 11:45          | 03-Dec-2024 11:50          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-006              | TY2413953-007              | TY2413953-008              | TY2413953-009              | TY2413953-010              |
|                             |            |            |           |      |                  | Result                     | Result                     | Result                     | Result                     | Result                     |
| Dissolved Metals            |            |            |           |      |                  |                            |                            |                            |                            |                            |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00070                    | 0.00106                    | 0.00063                    | 0.00085                    | 0.00023                    |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | 0.132                      | 0.332                      | 0.137                      | 0.139                      | 0.331                      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                  | 0.000112                   | 0.000050                   | <0.000050                  | 0.000052                   |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | 0.0044                     | 0.0073                     | 0.0037                     | 0.0018                     | 0.0018                     |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | 14.6                       | 14.0                       | 13.6                       | 4.52                       | 7.20                       |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | 0.00748                    | 0.0358                     | 0.00649                    | 0.0108                     | 0.146                      |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                 | <0.0000050                 |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | 0.000499                   | 0.00131                    | 0.000454                   | 0.000222                   | 0.000056                   |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | 0.00084                    | 0.00146                    | 0.00077                    | 0.00069                    | <0.00050                   |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050                     | <0.050                     | <0.050                     | <0.050                     | <0.050                     |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | 2.21                       | 6.50                       | 2.17                       | 1.18                       | 1.06                       |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | 0.00158                    | 0.00361                    | 0.00170                    | 0.00187                    | 0.00173                    |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | 0.000146                   | 0.000204                   | 0.000143                   | 0.000131                   | 0.000109                   |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 3.14                       | 5.52                       | 3.11                       | 2.36                       | 5.45                       |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 4.70                       | 14.8                       | 4.50                       | 4.75                       | 0.928                      |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | 0.0953                     | 0.158                      | 0.0864                     | 0.0346                     | 0.0269                     |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | 6.14                       | 30.0                       | 5.14                       | 3.02                       | <0.50                      |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                   | <0.00020                   |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  | <0.000010                  |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                   | <0.00010                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |            |          |      | Client sample ID | SW26_SW_20241203 SW | SW15_SW_20241203 SW | SW25_SW_20241203 SW | SW17_SW_20241203 SW | SW02_SW_20241203 SW |
|---------------------------------------|------------|------------|----------|------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Client sampling date / time           |            |            |          |      |                  | 03-Dec-2024 11:00   | 03-Dec-2024 11:15   | 03-Dec-2024 11:30   | 03-Dec-2024 11:45   | 03-Dec-2024 11:50   |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2413953-006       | TY2413953-007       | TY2413953-008       | TY2413953-009       | TY2413953-010       |
|                                       |            |            |          |      |                  | Result              | Result              | Result              | Result              | Result              |
| <b>Dissolved Metals</b>               |            |            |          |      |                  |                     |                     |                     |                     |                     |
| Tin, dissolved                        | 7440-31-5  | E421/TY    | 0.00010  | mg/L |                  | <0.00010            | <0.00010            | <0.00010            | <0.00010            | <0.00010            |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L |                  | 0.00078             | 0.00338             | 0.00065             | 0.00146             | 0.00059             |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L |                  | <0.00010            | <0.00010            | <0.00010            | <0.00010            | <0.00010            |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L |                  | 0.00108             | 0.000778            | 0.000976            | 0.000178            | 0.000039            |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L |                  | <0.00050            | 0.00066             | <0.00050            | <0.00050            | <0.00050            |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L |                  | 0.0061              | 0.0017              | 0.0036              | <0.0010             | 0.0021              |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L |                  | <0.00030            | 0.00034             | <0.00030            | <0.00030            | <0.00030            |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    |                  | Laboratory          | Laboratory          | Laboratory          | Laboratory          | Laboratory          |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    |                  | Laboratory          | Laboratory          | Laboratory          | Laboratory          | Laboratory          |
| <b>Aggregate Organics</b>             |            |            |          |      |                  |                     |                     |                     |                     |                     |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L |                  | <2.0                | <2.0                | <2.0                | <2.0                | <2.0                |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L |                  | 66                  | 100                 | 66                  | 45                  | 84                  |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L |                  | <1.0                | <1.0                | <1.0                | 1.6                 | <1.0                |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |      |      | Client sample ID | FB_SW_20241203 SW | SW06_SW_20241203 SW | TB_SW_20241203 SW | SW20_SW_20241203 SW | SW16_SW_20241203 SW |
|-----------------------------|------------|------------|------|------|------------------|-------------------|---------------------|-------------------|---------------------|---------------------|
| Client sampling date / time |            |            |      |      |                  | 03-Dec-2024 12:00 | 03-Dec-2024 12:00   | 03-Dec-2024 12:00 | 03-Dec-2024 12:20   | 03-Dec-2024 12:50   |
| Analyte                     | CAS Number | Method/Lab | LOR  | Unit |                  | TY2413953-011     | TY2413953-012       | TY2413953-013     | TY2413953-014       | TY2413953-015       |
|                             |            |            |      |      |                  | Result            | Result              | Result            | Result              | Result              |
| <b>Field Tests</b>          |            |            |      |      |                  |                   |                     |                   |                     |                     |
| Oxygen, dissolved, field    | ----       | EF001/TY   | 0.01 | mg/L |                  | ----              | 6.42                | ----              | 7.26                | 9.26                |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                             |            |              |        |          | Client sample ID | FB_SW_20241203<br>SW    | SW06_SW_202412<br>03<br>SW | TB_SW_20241203<br>SW    | SW20_SW_2024120<br>3<br>SW | SW16_SW_202412<br>03<br>SW |
|---------------------------------------------|------------|--------------|--------|----------|------------------|-------------------------|----------------------------|-------------------------|----------------------------|----------------------------|
| Client sampling date / time                 |            |              |        |          |                  | 03-Dec-2024 12:00       | 03-Dec-2024 12:00          | 03-Dec-2024 12:00       | 03-Dec-2024 12:20          | 03-Dec-2024 12:50          |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     |                  | TY2413953-011           | TY2413953-012              | TY2413953-013           | TY2413953-014              | TY2413953-015              |
|                                             |            |              |        |          |                  | Result                  | Result                     | Result                  | Result                     | Result                     |
| Field Tests                                 |            |              |        |          |                  |                         |                            |                         |                            |                            |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units | ----             | 7.31                    | ----                       | 7.07                    | 7.61                       |                            |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       | ----             | 0.29                    | ----                       | 0.35                    | 0.14                       |                            |
| Physical Tests                              |            |              |        |          |                  |                         |                            |                         |                            |                            |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     | 3.4              | 3.6                     | 2.6                        | 6.1                     | 4.0                        |                            |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       | <2.0             | 95.6                    | <2.0                       | 115                     | 54.1                       |                            |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    | 1.2              | 376                     | 1.2                        | 270                     | 104                        |                            |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     | <0.50            | 170                     | <0.50                      | 123                     | 43.3                       |                            |
| pH                                          | ----       | E108/TY      | 0.10   | pH units | 5.84             | 7.74                    | 5.63                       | 7.65                    | 7.61                       |                            |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     | <10              | 258                     | <10                        | 186                     | 78                         |                            |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     | <3.0             | 4.1                     | <3.0                       | <3.0                    | 16.3                       |                            |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      | <0.10            | 5.16                    | <0.10                      | 3.59                    | 10.5                       |                            |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     | <2.0             | 162                     | <2.0                       | 110                     | 40.8                       |                            |
| Anions and Nutrients                        |            |              |        |          |                  |                         |                            |                         |                            |                            |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | <0.0050          | 0.0264 <sup>&lt;T</sup> | <0.0050                    | 0.0183 <sup>&lt;T</sup> | 0.0146 <sup>&lt;T</sup>    |                            |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | ----             | <0.0010                 | ----                       | <0.0010                 | <0.0010                    |                            |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | <0.10            | 17.1                    | <0.10                      | 20.4                    | 3.62                       |                            |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | <0.020           | 0.043                   | <0.020                     | 0.027                   | 0.026                      |                            |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     | <0.050           | 0.961                   | <0.050                     | 0.941                   | 0.476                      |                            |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | <0.020           | 0.050 <sup>&lt;T</sup>  | <0.020                     | <0.020                  | 0.033 <sup>&lt;T</sup>     |                            |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010           | <0.010                  | <0.010                     | <0.010                  | <0.010                     |                            |
| Phosphate, ortho-, dissolved (as P)         | 14265-44-2 | E378-U/TY    | 0.0010 | mg/L     | <0.0010          | 0.0040                  | <0.0010                    | 0.0055                  | 0.0015                     |                            |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Client sample ID                         |            |             |           |      | FB_SW_20241203<br>SW   | SW06_SW_202412<br>03<br>SW | TB_SW_20241203<br>SW | SW20_SW_2024120<br>3<br>SW | SW16_SW_202412<br>03<br>SW |
|------------------------------------------|------------|-------------|-----------|------|------------------------|----------------------------|----------------------|----------------------------|----------------------------|
| Client sampling date / time              |            |             |           |      | 03-Dec-2024 12:00      | 03-Dec-2024 12:00          | 03-Dec-2024 12:00    | 03-Dec-2024 12:20          | 03-Dec-2024 12:50          |
| Analyte                                  | CAS Number | Method/Lab  | LOR       | Unit | TY2413953-011          | TY2413953-012              | TY2413953-013        | TY2413953-014              | TY2413953-015              |
|                                          |            |             |           |      | Result                 | Result                     | Result               | Result                     | Result                     |
| Anions and Nutrients                     |            |             |           |      |                        |                            |                      |                            |                            |
| Sulfate (as SO4)                         | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | <0.30                  | 37.2                       | <0.30                | 4.20                       | 5.79                       |
| Cyanides                                 |            |             |           |      |                        |                            |                      |                            |                            |
| Cyanide, free                            | ----       | E339/WT     | 0.0020    | mg/L | <0.0020                | <0.0020                    | <0.0020              | <0.0020                    | <0.0020                    |
| Cyanide, strong acid dissociable (Total) | ----       | E333/WT     | 0.0020    | mg/L | <0.0020                | <0.0020                    | <0.0020              | <0.0020                    | <0.0020                    |
| Cyanide, weak acid dissociable           | ----       | E336/WT     | 0.0020    | mg/L | <0.0020                | <0.0020                    | <0.0020              | <0.0020                    | <0.0020                    |
| Organic / Inorganic Carbon               |            |             |           |      |                        |                            |                      |                            |                            |
| Carbon, dissolved organic [DOC]          | ----       | E358-L/WT   | 0.50      | mg/L | <0.50                  | 28.7                       | <0.50                | 29.8                       | 15.9                       |
| Carbon, total organic [TOC]              | ----       | E355-L/WT   | 0.50      | mg/L | <0.50                  | 27.5                       | <0.50                | 29.2                       | 16.7                       |
| Total Metals                             |            |             |           |      |                        |                            |                      |                            |                            |
| Aluminum, total                          | 7429-90-5  | E420/TY     | 0.0030    | mg/L | <0.0030                | 0.210                      | <0.0030              | 0.145                      | 0.206                      |
| Antimony, total                          | 7440-36-0  | E420/TY     | 0.00010   | mg/L | <0.00010               | 0.00058 <sup>&lt;T</sup>   | <0.00010             | <0.00010                   | <0.00010                   |
| Arsenic, total                           | 7440-38-2  | E420/TY     | 0.00010   | mg/L | <0.00010               | 0.00093 <sup>&lt;T</sup>   | <0.00010             | 0.00072 <sup>&lt;T</sup>   | 0.00062 <sup>&lt;T</sup>   |
| Barium, total                            | 7440-39-3  | E420/TY     | 0.00010   | mg/L | 0.00040 <sup>RRV</sup> | 0.0180                     | <0.00010             | 0.0143                     | 0.0114                     |
| Beryllium, total                         | 7440-41-7  | E420/TY     | 0.000020  | mg/L | <0.000020              | 0.000022 <sup>&lt;T</sup>  | <0.000020            | <0.000020                  | <0.000020                  |
| Bismuth, total                           | 7440-69-9  | E420/TY     | 0.000050  | mg/L | <0.000050              | <0.000050                  | <0.000050            | <0.000050                  | <0.000050                  |
| Boron, total                             | 7440-42-8  | E420/TY     | 0.010     | mg/L | <0.010                 | 0.018 <sup>&lt;T</sup>     | <0.010               | 0.010                      | <0.010                     |
| Cadmium, total                           | 7440-43-9  | E420/TY     | 0.0000050 | mg/L | <0.0000050             | 0.0000069 <sup>&lt;T</sup> | <0.0000050           | <0.0000050                 | 0.0000078 <sup>&lt;T</sup> |
| Calcium, total                           | 7440-70-2  | E420/TY     | 0.050     | mg/L | <0.050                 | 42.2                       | <0.050               | 27.4                       | 10.6                       |
| Cesium, total                            | 7440-46-2  | E420/TY     | 0.000010  | mg/L | <0.000010              | 0.000036                   | <0.000010            | 0.000014                   | 0.000034                   |
| Chromium, total                          | 7440-47-3  | E420/TY     | 0.00050   | mg/L | <0.00050               | 0.00061 <sup>&lt;T</sup>   | <0.00050             | <0.00050                   | 0.00086 <sup>&lt;T</sup>   |
| Cobalt, total                            | 7440-48-4  | E420/TY     | 0.00010   | mg/L | <0.00010               | 0.00028 <sup>&lt;T</sup>   | <0.00010             | 0.00017 <sup>&lt;T</sup>   | 0.00017 <sup>&lt;T</sup>   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | FB_SW_20241203<br>SW | SW06_SW_202412<br>03<br>SW | TB_SW_20241203<br>SW | SW20_SW_2024120<br>3<br>SW | SW16_SW_202412<br>03<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 12:00    | 03-Dec-2024 12:00          | 03-Dec-2024 12:00    | 03-Dec-2024 12:20          | 03-Dec-2024 12:50          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-011        | TY2413953-012              | TY2413953-013        | TY2413953-014              | TY2413953-015              |
|                             |            |            |           |      |                  | Result               | Result                     | Result               | Result                     | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                      |                            |                      |                            |                            |
| Copper, total               | 7440-50-8  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00154 <T                 | <0.00050             | 0.00066 <T                 | 0.00130 <T                 |
| Iron, total                 | 7439-89-6  | E420/TY    | 0.010     | mg/L |                  | <0.010               | 0.424                      | <0.010               | 0.468                      | 0.324                      |
| Lead, total                 | 7439-92-1  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000106 <T                | <0.000050            | 0.000072 <T                | 0.000167 <T                |
| Lithium, total              | 7439-93-2  | E420/TY    | 0.0010    | mg/L |                  | <0.0010              | 0.0058 <T                  | <0.0010              | 0.0038 <T                  | 0.0010                     |
| Magnesium, total            | 7439-95-4  | E420/TY    | 0.0050    | mg/L |                  | <0.0050              | 16.1                       | <0.0050              | 13.1                       | 4.15                       |
| Manganese, total            | 7439-96-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.0513                     | <0.00010             | 0.0365                     | 0.0172                     |
| Mercury, total              | 7439-97-6  | E508/WT    | 0.0000050 | mg/L |                  | <0.0000050           | <0.0000050                 | <0.0000050           | <0.0000050                 | <0.0000050                 |
| Molybdenum, total           | 7439-98-7  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000820 <T                | <0.000050            | 0.000256 <T                | 0.000201 <T                |
| Nickel, total               | 7440-02-0  | E420/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00177 <T                 | <0.00050             | 0.00122 <T                 | 0.00097 <T                 |
| Phosphorus, total           | 7723-14-0  | E420/TY    | 0.050     | mg/L |                  | <0.050               | <0.050                     | <0.050               | <0.050                     | <0.050                     |
| Potassium, total            | 7440-09-7  | E420/TY    | 0.050     | mg/L |                  | <0.050               | 4.54                       | <0.050               | 1.47                       | 1.06                       |
| Rubidium, total             | 7440-17-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00356                    | <0.00020             | 0.00169                    | 0.00235                    |
| Selenium, total             | 7782-49-2  | E420/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000166 <T                | <0.000050            | 0.000177 <T                | 0.000130 <T                |
| Silicon, total              | 7440-21-3  | E420/TY    | 0.10      | mg/L |                  | 0.15 RRV             | 5.77                       | <0.10                | 5.94                       | 2.23                       |
| Silver, total               | 7440-22-4  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | <0.000010            | <0.000010                  | <0.000010                  |
| Sodium, total               | 7440-23-5  | E420/TY    | 0.050     | mg/L |                  | 0.203 RRV            | 11.4                       | <0.050               | 10.1                       | 4.58                       |
| Strontium, total            | 7440-24-6  | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.128                      | <0.00020             | 0.0656                     | 0.0282                     |
| Sulfur, total               | 7704-34-9  | E420/TY    | 0.50      | mg/L |                  | <0.50                | 14.2                       | <0.50                | 1.92                       | 2.18                       |
| Tellurium, total            | 13494-80-9 | E420/TY    | 0.00020   | mg/L |                  | <0.00020             | <0.00020                   | <0.00020             | <0.00020                   | <0.00020                   |
| Thallium, total             | 7440-28-0  | E420/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | <0.000010            | <0.000010                  | <0.000010                  |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | <0.00010             | <0.00010                   | <0.00010                   |





## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | FB_SW_20241203<br>SW   | SW06_SW_202412<br>03<br>SW | TB_SW_20241203<br>SW | SW20_SW_2024120<br>3<br>SW | SW16_SW_202412<br>03<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|------------------------|----------------------------|----------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 12:00      | 03-Dec-2024 12:00          | 03-Dec-2024 12:00    | 03-Dec-2024 12:20          | 03-Dec-2024 12:50          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-011          | TY2413953-012              | TY2413953-013        | TY2413953-014              | TY2413953-015              |
|                             |            |            |           |      |                  | Result                 | Result                     | Result               | Result                     | Result                     |
| <b>Total Metals</b>         |            |            |           |      |                  |                        |                            |                      |                            |                            |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010               | <0.00010                   | <0.00010             | <0.00010                   | 0.00014                    |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | <0.00030               | 0.00716                    | <0.00030             | 0.00495                    | 0.00683                    |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010               | <0.00010                   | <0.00010             | <0.00010                   | <0.00010                   |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | <0.000010              | 0.000652 <sup>&lt;T</sup>  | <0.000010            | 0.000278 <sup>&lt;T</sup>  | 0.000198 <sup>&lt;T</sup>  |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | <0.00050               | 0.00105                    | <0.00050             | 0.00077                    | 0.00096                    |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | <0.0030                | <0.0030                    | <0.0030              | <0.0030                    | <0.0030                    |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | <0.00020               | 0.00036                    | <0.00020             | 0.00034                    | 0.00034                    |
| <b>Dissolved Metals</b>     |            |            |           |      |                  |                        |                            |                      |                            |                            |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | <0.0010                | 0.0140                     | <0.0010              | 0.0321                     | 0.0285                     |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | <0.00010               | 0.00056                    | <0.00010             | <0.00010                   | <0.00010                   |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | <0.00010               | 0.00080                    | <0.00010             | 0.00066                    | 0.00046                    |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | 0.00040 <sup>RRV</sup> | 0.0180                     | <0.00010             | 0.0140                     | 0.0108                     |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020              | <0.000020                  | <0.000020            | <0.000020                  | <0.000020                  |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050              | <0.000050                  | <0.000050            | <0.000050                  | <0.000050                  |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | <0.010                 | 0.019                      | <0.010               | <0.010                     | <0.010                     |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | <0.0000050             | 0.0000060                  | <0.0000050           | <0.0000050                 | <0.0000050                 |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | <0.050                 | 42.8                       | <0.050               | 28.3                       | 10.6                       |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010              | 0.000011                   | <0.000010            | <0.000010                  | <0.000010                  |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050               | <0.00050                   | <0.00050             | <0.00050                   | <0.00050                   |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | <0.00010               | 0.00020                    | <0.00010             | 0.00012                    | <0.00010                   |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00038 <sup>RRV</sup> | 0.00132                    | <0.00020             | 0.00061                    | 0.00100                    |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | FB_SW_20241203<br>SW | SW06_SW_202412<br>03<br>SW | TB_SW_20241203<br>SW | SW20_SW_2024120<br>3<br>SW | SW16_SW_202412<br>03<br>SW |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 12:00    | 03-Dec-2024 12:00          | 03-Dec-2024 12:00    | 03-Dec-2024 12:20          | 03-Dec-2024 12:50          |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-011        | TY2413953-012              | TY2413953-013        | TY2413953-014              | TY2413953-015              |
|                             |            |            |           |      |                  | Result               | Result                     | Result               | Result                     | Result                     |
| <b>Dissolved Metals</b>     |            |            |           |      |                  |                      |                            |                      |                            |                            |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | <0.010               | 0.171                      | <0.010               | 0.280                      | 0.081                      |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | <0.000050                  | <0.000050            | <0.000050                  | <0.000050                  |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | <0.0010              | 0.0064                     | <0.0010              | 0.0031                     | 0.0011                     |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | <0.0050              | 15.3                       | <0.0050              | 12.8                       | 4.08                       |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | 0.0385                     | <0.00010             | 0.0318                     | 0.00346                    |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050           | <0.0000050                 | <0.0000050           | <0.0000050                 | <0.0000050                 |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000819                   | <0.000050            | 0.000233                   | 0.000180                   |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | <0.00050             | 0.00154                    | <0.00050             | 0.00114                    | 0.00074                    |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050               | <0.050                     | <0.050               | <0.050                     | <0.050                     |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | <0.050               | 4.61                       | <0.050               | 1.46                       | 1.03                       |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.00313                    | <0.00020             | 0.00146                    | 0.00191                    |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | <0.000050            | 0.000178                   | <0.000050            | 0.000161                   | 0.000142                   |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 0.124 <sup>RRV</sup> | 5.35                       | <0.050               | 5.69                       | 1.78                       |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | <0.000010            | <0.000010                  | <0.000010                  |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 0.204 <sup>RRV</sup> | 11.1                       | <0.050               | 10.4                       | 4.63                       |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | <0.00020             | 0.130                      | <0.00020             | 0.0691                     | 0.0295                     |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | <0.50                | 13.7                       | <0.50                | 1.75                       | 2.05                       |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020             | <0.00020                   | <0.00020             | <0.00020                   | <0.00020                   |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010            | <0.000010                  | <0.000010            | <0.000010                  | <0.000010                  |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | <0.00010             | <0.00010                   | <0.00010                   |
| Tin, dissolved              | 7440-31-5  | E421/TY    | 0.00010   | mg/L |                  | <0.00010             | <0.00010                   | <0.00010             | <0.00010                   | <0.00010                   |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                                       |            |            |          |      | Client sample ID | FB_SW_20241203<br>SW | SW06_SW_202412<br>03<br>SW | TB_SW_20241203<br>SW | SW20_SW_2024120<br>3<br>SW | SW16_SW_202412<br>03<br>SW |
|---------------------------------------|------------|------------|----------|------|------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------------|
| Client sampling date / time           |            |            |          |      |                  | 03-Dec-2024 12:00    | 03-Dec-2024 12:00          | 03-Dec-2024 12:00    | 03-Dec-2024 12:20          | 03-Dec-2024 12:50          |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit |                  | TY2413953-011        | TY2413953-012              | TY2413953-013        | TY2413953-014              | TY2413953-015              |
|                                       |            |            |          |      |                  | Result               | Result                     | Result               | Result                     | Result                     |
| <b>Dissolved Metals</b>               |            |            |          |      |                  |                      |                            |                      |                            |                            |
| Titanium, dissolved                   | 7440-32-6  | E421/TY    | 0.00030  | mg/L |                  | <0.00030             | 0.00097                    | <0.00030             | 0.00211                    | 0.00100                    |
| Tungsten, dissolved                   | 7440-33-7  | E421/TY    | 0.00010  | mg/L |                  | <0.00010             | <0.00010                   | <0.00010             | <0.00010                   | <0.00010                   |
| Uranium, dissolved                    | 7440-61-1  | E421/TY    | 0.000010 | mg/L |                  | <0.000010            | 0.000662                   | <0.000010            | 0.000269                   | 0.000152                   |
| Vanadium, dissolved                   | 7440-62-2  | E421/TY    | 0.00050  | mg/L |                  | <0.00050             | <0.00050                   | <0.00050             | <0.00050                   | <0.00050                   |
| Zinc, dissolved                       | 7440-66-6  | E421/TY    | 0.0010   | mg/L |                  | <0.0010              | 0.0010                     | <0.0010              | 0.0013                     | 0.0011                     |
| Zirconium, dissolved                  | 7440-67-7  | E421/TY    | 0.00030  | mg/L |                  | <0.00030             | <0.00030                   | <0.00030             | 0.00034                    | <0.00030                   |
| Dissolved mercury filtration location | ----       | EP509/WT   | -        | -    | Laboratory       | Laboratory           |                            | N/A                  | Laboratory                 | Laboratory                 |
| Dissolved metals filtration location  | ----       | EP421/TY   | -        | -    | Field            | Laboratory           |                            | Field                | Laboratory                 | Laboratory                 |
| <b>Aggregate Organics</b>             |            |            |          |      |                  |                      |                            |                      |                            |                            |
| Biochemical oxygen demand [BOD]       | ----       | E550/TY    | 2.0      | mg/L |                  | <2.0                 | <2.0                       | <2.0                 | <2.0                       | <2.0                       |
| Chemical oxygen demand [COD]          | ----       | E559-L/TY  | 10       | mg/L |                  | <10                  | 68                         | <10                  | 73                         | 36                         |
| Oil & grease (gravimetric)            | ----       | E567-L/WT  | 1.0      | mg/L |                  | <1.0                 | <1.0                       | <1.0                 | <1.0                       | <1.0                       |
| <b>Radiological Parameters</b>        |            |            |          |      |                  |                      |                            |                      |                            |                            |
| Radium-226                            | 13982-63-3 | Ra-226/2I  | 0.005    | Bq/L |                  | ----                 | ----                       | ----                 | <0.005                     | ----                       |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

| Client sample ID                            |            |              |        |          | SW03_SW_20241<br>203<br>SW | SW10_SW_202412<br>03<br>SW | SW28A_SW_2024<br>1203<br>SW | SW29A_SW_202412<br>03<br>SW | ---- |
|---------------------------------------------|------------|--------------|--------|----------|----------------------------|----------------------------|-----------------------------|-----------------------------|------|
| Client sampling date / time                 |            |              |        |          | 03-Dec-2024 14:15          | 03-Dec-2024 14:50          | 03-Dec-2024 15:10           | 03-Dec-2024 15:10           | ---- |
| Analyte                                     | CAS Number | Method/Lab   | LOR    | Unit     | TY2413953-016              | TY2413953-017              | TY2413953-018               | TY2413953-019               | ---- |
|                                             |            |              |        |          | Result                     | Result                     | Result                      | Result                      | ---- |
| Field Tests                                 |            |              |        |          |                            |                            |                             |                             |      |
| Oxygen, dissolved, field                    | ----       | EF001/TY     | 0.01   | mg/L     | 6.42                       | 8.88                       | 9.76                        | 4.55                        | ---- |
| pH, field                                   | ----       | EF001/TY     | 0.10   | pH units | 7.31                       | 7.34                       | 7.60                        | 7.10                        | ---- |
| Temperature, field                          | ----       | EF001/TY     | 0.10   | °C       | 0.29                       | 0.16                       | 0.17                        | 0.76                        | ---- |
| Physical Tests                              |            |              |        |          |                            |                            |                             |                             |      |
| Acidity (as CaCO <sub>3</sub> )             | ----       | E283/TY      | 2.0    | mg/L     | 5.3                        | 3.4                        | 2.2                         | 5.0                         | ---- |
| Colour, true                                | ----       | E329-L/TY    | 2.0    | CU       | 90.8                       | 163                        | 82.1                        | 59.1                        | ---- |
| Conductivity                                | ----       | E100/TY      | 1.0    | µS/cm    | 379                        | 250                        | 207                         | 207                         | ---- |
| Hardness (as CaCO <sub>3</sub> ), dissolved | ----       | EC100/TY     | 0.50   | mg/L     | 178                        | 123                        | 122                         | 114                         | ---- |
| pH                                          | ----       | E108/TY      | 0.10   | pH units | 7.76                       | 7.76                       | 7.90                        | 7.67                        | ---- |
| Solids, total dissolved [TDS]               | ----       | E162/TY      | 10     | mg/L     | 252                        | 160                        | 160                         | 137                         | ---- |
| Solids, total suspended [TSS]               | ----       | E160/TY      | 3.0    | mg/L     | 4.5                        | 3.2                        | <3.0                        | <3.0                        | ---- |
| Turbidity                                   | ----       | E121/TY      | 0.10   | NTU      | 6.23                       | 4.13                       | 1.76                        | 1.49                        | ---- |
| Alkalinity, total (as CaCO <sub>3</sub> )   | ----       | E290/TY      | 2.0    | mg/L     | 164                        | 111                        | 114                         | 111                         | ---- |
| Anions and Nutrients                        |            |              |        |          |                            |                            |                             |                             |      |
| Ammonia, total (as N)                       | 7664-41-7  | E298/TY      | 0.0050 | mg/L     | 0.0297 <sup>&lt;T</sup>    | 0.0201 <sup>&lt;T</sup>    | 0.0090 <sup>&lt;T</sup>     | 0.0109 <sup>&lt;T</sup>     | ---- |
| Ammonia, un-ionized (as N), field           | 7664-41-7  | EC298A/TY    | 0.0010 | mg/L     | <0.0010                    | <0.0010                    | <0.0010                     | <0.0010                     | ---- |
| Chloride                                    | 16887-00-6 | E235.Cl-L/TY | 0.10   | mg/L     | 16.6                       | 14.1                       | 1.32                        | 0.80                        | ---- |
| Fluoride                                    | 16984-48-8 | E235.F/TY    | 0.020  | mg/L     | 0.036                      | 0.030                      | 0.033                       | 0.026                       | ---- |
| Kjeldahl nitrogen, total [TKN]              | ----       | E318/TY      | 0.050  | mg/L     | 1.01                       | 1.16                       | 1.08                        | 0.821                       | ---- |
| Nitrate (as N)                              | 14797-55-8 | E235.NO3/TY  | 0.020  | mg/L     | 0.059 <sup>&lt;T</sup>     | <0.020                     | 0.024 <sup>&lt;T</sup>      | <0.020                      | ---- |
| Nitrite (as N)                              | 14797-65-0 | E235.NO2/TY  | 0.010  | mg/L     | <0.010                     | <0.010                     | <0.010                      | <0.010                      | ---- |



## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |             |           |      | Client sample ID            | SW03_SW_20241<br>203<br>SW | SW10_SW_202412<br>03<br>SW | SW28A_SW_2024<br>1203<br>SW | SW29A_SW_202412<br>03<br>SW | ---- |
|----------------------------------------------|------------|-------------|-----------|------|-----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------|
|                                              |            |             |           |      | Client sampling date / time | 03-Dec-2024 14:15          | 03-Dec-2024 14:50          | 03-Dec-2024 15:10           | 03-Dec-2024 15:10           | ---- |
| Analyte                                      | CAS Number | Method/Lab  | LOR       | Unit | TY2413953-016               | TY2413953-017              | TY2413953-018              | TY2413953-019               | ----                        |      |
|                                              |            |             |           |      | Result                      | Result                     | Result                     | Result                      | ----                        |      |
| Anions and Nutrients                         |            |             |           |      |                             |                            |                            |                             |                             |      |
| Phosphate, ortho-, dissolved (as P)          | 14265-44-2 | E378-U/TY   | 0.0010    | mg/L | 0.0042                      | 0.0079                     | <0.0010                    | 0.0025                      | ----                        |      |
| Sulfate (as SO4)                             | 14808-79-8 | E235.SO4/TY | 0.30      | mg/L | 36.4                        | 3.86                       | 0.51                       | 1.62                        | ----                        |      |
| Cyanides                                     |            |             |           |      |                             |                            |                            |                             |                             |      |
| Cyanide, free                                | ----       | E339/WT     | 0.0020    | mg/L | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | ----                        |      |
| Cyanide, strong acid dissociable (Total)     | ----       | E333/WT     | 0.0020    | mg/L | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | ----                        |      |
| Cyanide, weak acid dissociable               | ----       | E336/WT     | 0.0020    | mg/L | <0.0020                     | <0.0020                    | <0.0020                    | <0.0020                     | ----                        |      |
| Organic / Inorganic Carbon                   |            |             |           |      |                             |                            |                            |                             |                             |      |
| Carbon, dissolved organic [DOC]              | ----       | E358-L/WT   | 0.50      | mg/L | 27.9                        | 35.5                       | 30.4                       | 22.9                        | ----                        |      |
| Carbon, total organic [TOC]                  | ----       | E355-L/WT   | 0.50      | mg/L | 28.1                        | 34.8                       | 30.1                       | 22.7                        | ----                        |      |
| Total Metals                                 |            |             |           |      |                             |                            |                            |                             |                             |      |
| Aluminum, total                              | 7429-90-5  | E420/TY     | 0.0030    | mg/L | 0.195                       | 0.202                      | 0.0277 <sup>&lt;T</sup>    | 0.0287 <sup>&lt;T</sup>     | ----                        |      |
| Antimony, total                              | 7440-36-0  | E420/TY     | 0.00010   | mg/L | 0.00057 <sup>&lt;T</sup>    | <0.00010                   | <0.00010                   | <0.00010                    | ----                        |      |
| Arsenic, total                               | 7440-38-2  | E420/TY     | 0.00010   | mg/L | 0.00092 <sup>&lt;T</sup>    | 0.00089 <sup>&lt;T</sup>   | 0.00076 <sup>&lt;T</sup>   | 0.00055 <sup>&lt;T</sup>    | ----                        |      |
| Barium, total                                | 7440-39-3  | E420/TY     | 0.00010   | mg/L | 0.0178                      | 0.0163                     | 0.0117                     | 0.00953                     | ----                        |      |
| Beryllium, total                             | 7440-41-7  | E420/TY     | 0.000020  | mg/L | <0.000020                   | 0.000028 <sup>&lt;T</sup>  | <0.000020                  | <0.000020                   | ----                        |      |
| Bismuth, total                               | 7440-69-9  | E420/TY     | 0.000050  | mg/L | <0.000050                   | <0.000050                  | <0.000050                  | <0.000050                   | ----                        |      |
| Boron, total                                 | 7440-42-8  | E420/TY     | 0.010     | mg/L | 0.018 <sup>&lt;T</sup>      | 0.013 <sup>&lt;T</sup>     | 0.010                      | <0.010                      | ----                        |      |
| Cadmium, total                               | 7440-43-9  | E420/TY     | 0.0000050 | mg/L | 0.0000087 <sup>&lt;T</sup>  | 0.0000076 <sup>&lt;T</sup> | <0.0000050                 | <0.0000050                  | ----                        |      |
| Calcium, total                               | 7440-70-2  | E420/TY     | 0.050     | mg/L | 40.8                        | 32.1                       | 24.8                       | 24.0                        | ----                        |      |
| Cesium, total                                | 7440-46-2  | E420/TY     | 0.000010  | mg/L | 0.000036                    | 0.000016                   | <0.000010                  | <0.000010                   | ----                        |      |
| Chromium, total                              | 7440-47-3  | E420/TY     | 0.00050   | mg/L | 0.00059 <sup>&lt;T</sup>    | <0.00050                   | <0.00050                   | <0.00050                    | ----                        |      |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |           |      | Client sample ID            | SW03_SW_20241<br>203<br>SW | SW10_SW_202412<br>03<br>SW | SW28A_SW_2024<br>1203<br>SW | SW29A_SW_202412<br>03<br>SW | ---- |
|----------------------------------------------|------------|------------|-----------|------|-----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------|
|                                              |            |            |           |      | Client sampling date / time | 03-Dec-2024 14:15          | 03-Dec-2024 14:50          | 03-Dec-2024 15:10           | 03-Dec-2024 15:10           | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR       | Unit | TY2413953-016               | TY2413953-017              | TY2413953-018              | TY2413953-019               | ----                        |      |
|                                              |            |            |           |      | Result                      | Result                     | Result                     | Result                      | ----                        |      |
| Total Metals                                 |            |            |           |      |                             |                            |                            |                             |                             |      |
| Cobalt, total                                | 7440-48-4  | E420/TY    | 0.00010   | mg/L | 0.00029 <T                  | 0.00018 <T                 | <0.00010                   | 0.00012 <T                  | ----                        |      |
| Copper, total                                | 7440-50-8  | E420/TY    | 0.00050   | mg/L | 0.00153 <T                  | 0.00086 <T                 | <0.00050                   | <0.00050                    | ----                        |      |
| Iron, total                                  | 7439-89-6  | E420/TY    | 0.010     | mg/L | 0.438                       | 0.511                      | 0.134                      | 0.221                       | ----                        |      |
| Lead, total                                  | 7439-92-1  | E420/TY    | 0.000050  | mg/L | 0.000121 <T                 | 0.000099 <T                | <0.000050                  | <0.000050                   | ----                        |      |
| Lithium, total                               | 7439-93-2  | E420/TY    | 0.0010    | mg/L | 0.0052 <T                   | 0.0044 <T                  | 0.0030 <T                  | 0.0028 <T                   | ----                        |      |
| Magnesium, total                             | 7439-95-4  | E420/TY    | 0.0050    | mg/L | 16.5                        | 13.5                       | 12.1                       | 12.2                        | ----                        |      |
| Manganese, total                             | 7439-96-5  | E420/TY    | 0.00010   | mg/L | 0.0524                      | 0.0237                     | 0.0172                     | 0.0241                      | ----                        |      |
| Mercury, total                               | 7439-97-6  | E508/WT    | 0.0000050 | mg/L | <0.0000050                  | <0.0000050                 | <0.0000050                 | <0.0000050                  | ----                        |      |
| Molybdenum, total                            | 7439-98-7  | E420/TY    | 0.000050  | mg/L | 0.000753 <T                 | 0.000365 <T                | 0.000267 <T                | 0.000197 <T                 | ----                        |      |
| Nickel, total                                | 7440-02-0  | E420/TY    | 0.00050   | mg/L | 0.00174 <T                  | 0.00139 <T                 | 0.00072 <T                 | 0.00074 <T                  | ----                        |      |
| Phosphorus, total                            | 7723-14-0  | E420/TY    | 0.050     | mg/L | <0.050                      | <0.050                     | <0.050                     | <0.050                      | ----                        |      |
| Potassium, total                             | 7440-09-7  | E420/TY    | 0.050     | mg/L | 4.56                        | 1.54                       | 1.01                       | 0.850                       | ----                        |      |
| Rubidium, total                              | 7440-17-7  | E420/TY    | 0.00020   | mg/L | 0.00364                     | 0.00186                    | 0.00176                    | 0.00114                     | ----                        |      |
| Selenium, total                              | 7782-49-2  | E420/TY    | 0.000050  | mg/L | 0.000177 <T                 | 0.000133 <T                | 0.000150 <T                | 0.000081 <T                 | ----                        |      |
| Silicon, total                               | 7440-21-3  | E420/TY    | 0.10      | mg/L | 5.62                        | 6.07                       | 3.33                       | 5.29                        | ----                        |      |
| Silver, total                                | 7440-22-4  | E420/TY    | 0.000010  | mg/L | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   | ----                        |      |
| Sodium, total                                | 7440-23-5  | E420/TY    | 0.050     | mg/L | 11.4                        | 8.22                       | 1.31                       | 1.71                        | ----                        |      |
| Strontium, total                             | 7440-24-6  | E420/TY    | 0.00020   | mg/L | 0.128                       | 0.0879                     | 0.0506                     | 0.0499                      | ----                        |      |
| Sulfur, total                                | 7704-34-9  | E420/TY    | 0.50      | mg/L | 14.0                        | 1.67                       | <0.50                      | 0.82                        | ----                        |      |
| Tellurium, total                             | 13494-80-9 | E420/TY    | 0.00020   | mg/L | <0.00020                    | <0.00020                   | <0.00020                   | <0.00020                    | ----                        |      |
| Thallium, total                              | 7440-28-0  | E420/TY    | 0.000010  | mg/L | <0.000010                   | <0.000010                  | <0.000010                  | <0.000010                   | ----                        |      |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW03_SW_20241<br>203<br>SW | SW10_SW_202412<br>03<br>SW | SW28A_SW_2024<br>1203<br>SW | SW29A_SW_202412<br>03<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 14:15          | 03-Dec-2024 14:50          | 03-Dec-2024 15:10           | 03-Dec-2024 15:10           | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-016              | TY2413953-017              | TY2413953-018               | TY2413953-019               | ---- |
|                             |            |            |           |      |                  | Result                     | Result                     | Result                      | Result                      | ---- |
| Total Metals                |            |            |           |      |                  |                            |                            |                             |                             |      |
| Thorium, total              | 7440-29-1  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    | ---- |
| Tin, total                  | 7440-31-5  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    | ---- |
| Titanium, total             | 7440-32-6  | E420/TY    | 0.00030   | mg/L |                  | 0.00771                    | 0.00644                    | 0.00079                     | <0.00360 <sup>DLM</sup>     | ---- |
| Tungsten, total             | 7440-33-7  | E420/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    | ---- |
| Uranium, total              | 7440-61-1  | E420/TY    | 0.000010  | mg/L |                  | 0.000642 <sup>&lt;T</sup>  | 0.000495 <sup>&lt;T</sup>  | 0.000349 <sup>&lt;T</sup>   | 0.000126 <sup>&lt;T</sup>   | ---- |
| Vanadium, total             | 7440-62-2  | E420/TY    | 0.00050   | mg/L |                  | 0.00101                    | 0.00107                    | <0.00050                    | <0.00050                    | ---- |
| Zinc, total                 | 7440-66-6  | E420/TY    | 0.0030    | mg/L |                  | 0.0035 <sup>&lt;T</sup>    | <0.0030                    | <0.0030                     | <0.0030                     | ---- |
| Zirconium, total            | 7440-67-7  | E420/TY    | 0.00020   | mg/L |                  | 0.00036                    | 0.00044                    | <0.00020                    | <0.00020                    | ---- |
| Dissolved Metals            |            |            |           |      |                  |                            |                            |                             |                             |      |
| Aluminum, dissolved         | 7429-90-5  | E421/TY    | 0.0010    | mg/L |                  | 0.0162                     | 0.0514                     | 0.0079                      | 0.0075                      | ---- |
| Antimony, dissolved         | 7440-36-0  | E421/TY    | 0.00010   | mg/L |                  | 0.00056                    | <0.00010                   | <0.00010                    | <0.00010                    | ---- |
| Arsenic, dissolved          | 7440-38-2  | E421/TY    | 0.00010   | mg/L |                  | 0.00079                    | 0.00082                    | 0.00072                     | 0.00050                     | ---- |
| Barium, dissolved           | 7440-39-3  | E421/TY    | 0.00010   | mg/L |                  | 0.0177                     | 0.0145                     | 0.0117                      | 0.00932                     | ---- |
| Beryllium, dissolved        | 7440-41-7  | E421/TY    | 0.000020  | mg/L |                  | <0.000020                  | <0.000020                  | <0.000020                   | <0.000020                   | ---- |
| Bismuth, dissolved          | 7440-69-9  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                  | <0.000050                  | <0.000050                   | <0.000050                   | ---- |
| Boron, dissolved            | 7440-42-8  | E421/TY    | 0.010     | mg/L |                  | 0.018                      | 0.013                      | 0.010                       | <0.010                      | ---- |
| Cadmium, dissolved          | 7440-43-9  | E421/TY    | 0.0000050 | mg/L |                  | 0.0000061                  | 0.0000082                  | <0.0000050                  | <0.0000050                  | ---- |
| Calcium, dissolved          | 7440-70-2  | E421/TY    | 0.050     | mg/L |                  | 45.0                       | 28.4                       | 27.6                        | 25.9                        | ---- |
| Cesium, dissolved           | 7440-46-2  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                   | ---- |
| Chromium, dissolved         | 7440-47-3  | E421/TY    | 0.00050   | mg/L |                  | <0.00050                   | <0.00050                   | <0.00050                    | <0.00050                    | ---- |
| Cobalt, dissolved           | 7440-48-4  | E421/TY    | 0.00010   | mg/L |                  | 0.00019                    | 0.00012                    | <0.00010                    | <0.00010                    | ---- |



## Analytical Results

Sub-Matrix: Surface Water  
 (Matrix: Water)

|                             |            |            |           |      | Client sample ID | SW03_SW_20241<br>203<br>SW | SW10_SW_202412<br>03<br>SW | SW28A_SW_2024<br>1203<br>SW | SW29A_SW_202412<br>03<br>SW | ---- |
|-----------------------------|------------|------------|-----------|------|------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------|
| Client sampling date / time |            |            |           |      |                  | 03-Dec-2024 14:15          | 03-Dec-2024 14:50          | 03-Dec-2024 15:10           | 03-Dec-2024 15:10           | ---- |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit |                  | TY2413953-016              | TY2413953-017              | TY2413953-018               | TY2413953-019               | ---- |
|                             |            |            |           |      |                  | Result                     | Result                     | Result                      | Result                      | ---- |
| Dissolved Metals            |            |            |           |      |                  |                            |                            |                             |                             |      |
| Copper, dissolved           | 7440-50-8  | E421/TY    | 0.00020   | mg/L |                  | 0.00134                    | 0.00076                    | 0.00046                     | 0.00030                     | ---- |
| Iron, dissolved             | 7439-89-6  | E421/TY    | 0.010     | mg/L |                  | 0.176                      | 0.313                      | 0.073                       | 0.136                       | ---- |
| Lead, dissolved             | 7439-92-1  | E421/TY    | 0.000050  | mg/L |                  | <0.000050                  | 0.000050                   | <0.000050                   | <0.000050                   | ---- |
| Lithium, dissolved          | 7439-93-2  | E421/TY    | 0.0010    | mg/L |                  | 0.0058                     | 0.0045                     | 0.0032                      | 0.0031                      | ---- |
| Magnesium, dissolved        | 7439-95-4  | E421/TY    | 0.0050    | mg/L |                  | 16.0                       | 12.6                       | 12.8                        | 11.9                        | ---- |
| Manganese, dissolved        | 7439-96-5  | E421/TY    | 0.00010   | mg/L |                  | 0.0389                     | 0.0195                     | 0.00777                     | 0.0194                      | ---- |
| Mercury, dissolved          | 7439-97-6  | E509/WT    | 0.0000050 | mg/L |                  | <0.0000050                 | <0.0000050                 | <0.0000050                  | <0.0000050                  | ---- |
| Molybdenum, dissolved       | 7439-98-7  | E421/TY    | 0.000050  | mg/L |                  | 0.000791                   | 0.000308                   | 0.000283                    | 0.000187                    | ---- |
| Nickel, dissolved           | 7440-02-0  | E421/TY    | 0.00050   | mg/L |                  | 0.00155                    | 0.00119                    | 0.00071                     | 0.00069                     | ---- |
| Phosphorus, dissolved       | 7723-14-0  | E421/TY    | 0.050     | mg/L |                  | <0.050                     | <0.050                     | <0.050                      | <0.050                      | ---- |
| Potassium, dissolved        | 7440-09-7  | E421/TY    | 0.050     | mg/L |                  | 4.89                       | 1.51                       | 1.02                        | 0.846                       | ---- |
| Rubidium, dissolved         | 7440-17-7  | E421/TY    | 0.00020   | mg/L |                  | 0.00318                    | 0.00155                    | 0.00159                     | 0.00107                     | ---- |
| Selenium, dissolved         | 7782-49-2  | E421/TY    | 0.000050  | mg/L |                  | 0.000169                   | 0.000172                   | 0.000131                    | 0.000122                    | ---- |
| Silicon, dissolved          | 7440-21-3  | E421/TY    | 0.050     | mg/L |                  | 5.25                       | 5.64                       | 3.29                        | 5.21                        | ---- |
| Silver, dissolved           | 7440-22-4  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                   | ---- |
| Sodium, dissolved           | 7440-23-5  | E421/TY    | 0.050     | mg/L |                  | 11.7                       | 7.47                       | 1.33                        | 1.82                        | ---- |
| Strontium, dissolved        | 7440-24-6  | E421/TY    | 0.00020   | mg/L |                  | 0.134                      | 0.0748                     | 0.0556                      | 0.0517                      | ---- |
| Sulfur, dissolved           | 7704-34-9  | E421/TY    | 0.50      | mg/L |                  | 13.5                       | 1.62                       | <0.50                       | 0.70                        | ---- |
| Tellurium, dissolved        | 13494-80-9 | E421/TY    | 0.00020   | mg/L |                  | <0.00020                   | <0.00020                   | <0.00020                    | <0.00020                    | ---- |
| Thallium, dissolved         | 7440-28-0  | E421/TY    | 0.000010  | mg/L |                  | <0.000010                  | <0.000010                  | <0.000010                   | <0.000010                   | ---- |
| Thorium, dissolved          | 7440-29-1  | E421/TY    | 0.00010   | mg/L |                  | <0.00010                   | <0.00010                   | <0.00010                    | <0.00010                    | ---- |





## Analytical Results

Sub-Matrix: Surface Water

(Matrix: Water)

| Sub-Matrix: Surface Water<br>(Matrix: Water) |            |            |          |      | Client sample ID  | SW03_SW_20241<br>203<br>SW | SW10_SW_202412<br>03<br>SW | SW28A_SW_2024<br>1203<br>SW | SW29A_SW_202412<br>03<br>SW | ---- |
|----------------------------------------------|------------|------------|----------|------|-------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|------|
| Client sampling date / time                  |            |            |          |      | 03-Dec-2024 14:15 | 03-Dec-2024 14:50          | 03-Dec-2024 15:10          | 03-Dec-2024 15:10           | ----                        |      |
| Analyte                                      | CAS Number | Method/Lab | LOR      | Unit | TY2413953-016     | TY2413953-017              | TY2413953-018              | TY2413953-019               | ----                        |      |
|                                              |            |            |          |      | Result            | Result                     | Result                     | Result                      | ----                        |      |
| Dissolved Metals                             |            |            |          |      |                   |                            |                            |                             |                             |      |
| Tin, dissolved                               | 7440-31-5  | E421/TY    | 0.00010  | mg/L | <0.00010          | <0.00010                   | <0.00010                   | <0.00010                    | ----                        |      |
| Titanium, dissolved                          | 7440-32-6  | E421/TY    | 0.00030  | mg/L | 0.00098           | 0.00240                    | 0.00030                    | <0.00030                    | ----                        |      |
| Tungsten, dissolved                          | 7440-33-7  | E421/TY    | 0.00010  | mg/L | <0.00010          | <0.00010                   | <0.00010                   | <0.00010                    | ----                        |      |
| Uranium, dissolved                           | 7440-61-1  | E421/TY    | 0.000010 | mg/L | 0.000620          | 0.000425                   | 0.000341                   | 0.000120                    | ----                        |      |
| Vanadium, dissolved                          | 7440-62-2  | E421/TY    | 0.00050  | mg/L | <0.00050          | <0.00050                   | <0.00050                   | <0.00050                    | ----                        |      |
| Zinc, dissolved                              | 7440-66-6  | E421/TY    | 0.0010   | mg/L | 0.0014            | 0.0015                     | <0.0010                    | <0.0010                     | ----                        |      |
| Zirconium, dissolved                         | 7440-67-7  | E421/TY    | 0.00030  | mg/L | <0.00030          | 0.00034                    | <0.00030                   | <0.00030                    | ----                        |      |
| Dissolved mercury filtration location        | ----       | EP509/WT   | -        | -    | Laboratory        | Laboratory                 | Laboratory                 | Laboratory                  | ----                        |      |
| Dissolved metals filtration location         | ----       | EP421/TY   | -        | -    | Laboratory        | Laboratory                 | Laboratory                 | Laboratory                  | ----                        |      |
| Aggregate Organics                           |            |            |          |      |                   |                            |                            |                             |                             |      |
| Biochemical oxygen demand [BOD]              | ----       | E550/TY    | 2.0      | mg/L | <2.0              | <2.0                       | <2.0                       | <2.0                        | ----                        |      |
| Chemical oxygen demand [COD]                 | ----       | E559-L/TY  | 10       | mg/L | 67                | 87                         | 73                         | 58                          | ----                        |      |
| Oil & grease (gravimetric)                   | ----       | E567-L/WT  | 1.0      | mg/L | 1.5               | <1.0                       | <1.0                       | <1.0                        | ----                        |      |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

## ***Test Report***

SRC Group # 2024-15944

Dec 20, 2024

ALS  
Thunder Bay Analytical  
1081 Barton Street  
Thunder Bay, ON P7B 5N3  
Attn: Christine Paradis

Date Samples Received: Dec-10-2024

Client P.O.: TY2413953

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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

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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.

Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Analytes denoted with \* are accredited by CALA to ISO/IEC 17025:2017.

Additional information is available upon request.

This is a final report.

SRC Group # 2024-15944

Dec 20, 2024

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

|                |                                                         |                |                     |
|----------------|---------------------------------------------------------|----------------|---------------------|
| Sample #:      | <b>2024046165</b>                                       | Client PO #:   | <b>TY2413953</b>    |
| Date Sampled:  | <b>Dec 03, 2024</b>                                     | Date Received: | <b>Dec 10, 2024</b> |
| Sample Matrix: | <b>WATER</b>                                            |                |                     |
| Description:   | <b>12/03/2024 08:45 SW22A_SW_20241203 TY2413953-001</b> |                |                     |

| Analyte              | Units | Result | DL    |
|----------------------|-------|--------|-------|
| <b>Lab Section 4</b> |       |        |       |
| Radium-226*          | Bq/L  | 0.006  | 0.005 |

The temperature of the cooler was 7.8 °C upon receipt.

**SRC Group # 2024-15944**

Dec 20, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024046166** Client PO #: **TY2413953**  
Date Sampled: **Dec 03, 2024** Date Received: **Dec 10, 2024**  
Sample Matrix: **WATER**  
Description: **12/03/2024 09:00 SW23\_SW\_20241203 TY2413953-002**

| 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 7.8 °C upon receipt.

**SRC Group # 2024-15944**

Dec 20, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024046167**  
Date Sampled: **Dec 03, 2024**  
Sample Matrix: **WATER**  
Description: **12/03/2024 09:25 SW24\_SW\_20241203 TY2413953-003**

Client PO #: **TY2413953**  
Date Received: **Dec 10, 2024**

| Analyte              | Units | Result | DL    |
|----------------------|-------|--------|-------|
| <b>Lab Section 4</b> |       |        |       |
| Radium-226*          | Bq/L  | 0.006  | 0.005 |

The temperature of the cooler was 7.8 °C upon receipt.

**SRC Group # 2024-15944**

Dec 20, 2024

**ALS, Thunder Bay Analytical**

Sample #: **2024046168** Client PO #: **TY2413953**  
Date Sampled: **Dec 03, 2024** Date Received: **Dec 10, 2024**  
Sample Matrix: **WATER**  
Description: **12/03/2024 11:20 SW20\_SW\_20241203 TY2413953-014**

| 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 7.8 °C upon receipt.

SRC Group # 2024-15944

Dec 20, 2024

ALS, Thunder Bay Analytical

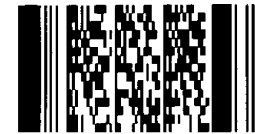
**Analyte Methods**

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

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 12/4/2024 9:00:00 AM<br><b>COC Number:</b> ALS-456303750 |                               |                     |                 |                  |        | Containers    |               | SW Kit | Ra-226 Bottle |  |  |  |  |  |  |    |  | Number of Containers | Comments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|--------|---------------|--|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Filtered      |               | N      | N             |  |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Preservatives |               |        |               |  |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |               |               |        |               |  |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                 | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |        |               |  |  |  |  |  |  |    |  |                      |          |
| SW22A_SW_20241203                                                                                                                                                                                                                                                                                                           | 5.49                          | 6.92                | 0.16            | 12/03/2024 09:45 | SW     | X             |               |        |               |  |  |  |  |  |  | 12 |  |                      |          |
| SW22A_SW_20241203                                                                                                                                                                                                                                                                                                           | 5.49                          | 6.92                | 0.16            | 12/03/2024 09:45 | SW     |               | X             |        |               |  |  |  |  |  |  | 12 |  |                      |          |
| SW23_SW_20241203                                                                                                                                                                                                                                                                                                            | 6.79                          | 7.14                | 0.14            | 12/03/2024 10:00 | SW     | X             |               |        |               |  |  |  |  |  |  | 12 |  |                      |          |
| SW23_SW_20241203                                                                                                                                                                                                                                                                                                            | 6.79                          | 7.14                | 0.14            | 12/03/2024 10:00 | SW     |               | X             |        |               |  |  |  |  |  |  | 12 |  |                      |          |
| SW24_SW_20241203                                                                                                                                                                                                                                                                                                            | 7.11                          | 7.27                | 0.14            | 12/03/2024 10:25 | SW     | X             |               |        |               |  |  |  |  |  |  | 12 |  |                      |          |
| SW24_SW_20241203                                                                                                                                                                                                                                                                                                            | 7.11                          | 7.27                | 0.14            | 12/03/2024 10:25 | SW     |               | X             |        |               |  |  |  |  |  |  | 12 |  |                      |          |

TY2413953

Environmental Division  
Thunder Bay  
Work Order Reference  
**TY2413953**



Telephone : +1 807 623 6483

|             |  |                                                  |                                                                        |  |                                |                                                                                                                |
|-------------|--|--------------------------------------------------|------------------------------------------------------------------------|--|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| Signature   |  | Data/Time                                        | Shipping Details                                                       |  | ATTN                           | Special Instructions:                                                                                          |
| Shipped by  |  | 12/4/2024 9:00:00 AM                             | Method of Shipment: Courier<br>On Ice: yes / no<br>Shipped: Air/Ground |  | 6X<br>Manitoulin<br>+ Ice pack |                                                                                                                |
| Received by |  | LV 12/5/24 12:00<br>6.3, 4.8, 4.9, 5.8, 4.4, 5.9 | Lab Name: ALS Thunder Bay<br>Lab Phone:                                |  |                                | Email Invoice to:<br>rainyriver.accounts1@newgold.com<br>Email Report to:<br>rainyriver.labresults@newgold.com |



| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 12/4/2024 9:00:00 AM<br><b>COC Number:</b> ALS-456303750 |                               |                     |                 |                  |        | Containers    |               | SW Kit | Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|--------|---------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Filtered      |               | N      | N             |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Preservatives |               |        |               |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |               |               |        |               |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                 | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |        |               |  |  |  |  |  |    |  |                      |          |
| SW27_SW_20241203                                                                                                                                                                                                                                                                                                            | 7.16                          | 7.47                | 0.09            | 12/03/2024 10:25 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW21A_SW_20241203                                                                                                                                                                                                                                                                                                           | 5.12                          | 7.05                | 0.2             | 12/03/2024 10:35 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW26_SW_20241203                                                                                                                                                                                                                                                                                                            | 7.88                          | 7.65                | 0.11            | 12/03/2024 11:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW15_SW_20241203                                                                                                                                                                                                                                                                                                            | 7.66                          | 7.4                 | 0.21            | 12/03/2024 11:15 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW25_SW_20241203                                                                                                                                                                                                                                                                                                            | 5.65                          | 7.7                 | 0.09            | 12/03/2024 11:30 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW17_SW_20241203                                                                                                                                                                                                                                                                                                            | 9.5                           | 7.62                | 0.29            | 12/03/2024 11:45 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |

| Signature   | Date/Time            | Shipping Details            | ATTN | Special Instructions:                                 |
|-------------|----------------------|-----------------------------|------|-------------------------------------------------------|
| Shipped by  | 12/4/2024 9:00:00 AM | Method of Shipment: Courier |      |                                                       |
|             |                      | On Ice: yes / no            |      |                                                       |
| Received by |                      | Shipped: Air/Ground         |      | Email Invoice to:<br>rainyriver.accounts1@newgold.com |
|             |                      | Lab Name: ALS Thunder Bay   |      | Email Report to:<br>rainyriver.labresults@newgold.com |
|             |                      | Lab Phone:                  |      |                                                       |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 12/4/2024 9:00:00 AM<br><b>COC Number:</b> ALS-456303750 |                               |                     |                 |                  |        | Containers    |               | SW Kit | Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|--------|---------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Filtered      |               | N      | N             |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Preservatives |               |        |               |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |               |               |        |               |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                 | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |        |               |  |  |  |  |  |    |  |                      |          |
| SW02_SW_20241203                                                                                                                                                                                                                                                                                                            | 5.67                          | 6.99                | 0.66            | 12/03/2024 11:50 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| FB_SW_20241203                                                                                                                                                                                                                                                                                                              |                               |                     |                 | 12/03/2024 12:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW06_SW_20241203                                                                                                                                                                                                                                                                                                            | 6.42                          | 7.31                | 0.29            | 12/03/2024 12:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| TB_SW_20241203                                                                                                                                                                                                                                                                                                              |                               |                     |                 | 12/03/2024 12:00 | SW     | X             |               |        |               |  |  |  |  |  | 11 |  |                      |          |
| SW20_SW_20241203                                                                                                                                                                                                                                                                                                            | 7.26                          | 7.07                | 0.35            | 12/03/2024 12:20 | SW     | X             |               |        |               |  |  |  |  |  | 12 |  |                      |          |
| SW20_SW_20241203                                                                                                                                                                                                                                                                                                            | 7.26                          | 7.07                | 0.35            | 12/03/2024 12:20 | SW     |               | X             |        |               |  |  |  |  |  | 12 |  |                      |          |

| Signature   | Date/Time            | Shipping Details            | ATTN | Special Instructions:             |
|-------------|----------------------|-----------------------------|------|-----------------------------------|
| Shipped by  | 12/4/2024 9:00:00 AM | Method of Shipment: Courier |      |                                   |
|             |                      | On Ice: yes / no            |      |                                   |
| Received by |                      | Shipped: Air/Ground         |      | Email Invoice to:                 |
|             |                      | Lab Name: ALS Thunder Bay   |      | rainyriver.accounts1@newgold.com  |
|             |                      | Lab Phone:                  |      | Email Report to:                  |
|             |                      |                             |      | rainyriver.labresults@newgold.com |

| <b>Project Name:</b> Rainy River<br><b>Location:</b> Chapple<br><b>Project Number:</b><br><b>Project Manager:</b><br><b>PO Number:</b><br><b>Project:</b><br><b>Turn Around Time (days):</b> 10 Business Days<br><b>Shipping Company:</b><br><b>Shipping Date:</b> 12/4/2024 9:00:00 AM<br><b>COC Number:</b> ALS-456303750 |                               |                     |                 |                  |        | Containers    |               | SW Kit     | Ra-226 Bottle |  |  |  |  |  |    |  | Number of Containers | Comments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|------------|---------------|--|--|--|--|--|----|--|----------------------|----------|
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Filtered      |               | N          | N             |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        | Preservatives |               |            |               |  |  |  |  |  |    |  |                      |          |
|                                                                                                                                                                                                                                                                                                                             |                               |                     |                 |                  |        |               |               | NG-SW-P-TB | RA226-MMER-BE |  |  |  |  |  |    |  |                      |          |
| Sample Code                                                                                                                                                                                                                                                                                                                 | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time    | Matrix | NG-SW-P-TB    | RA226-MMER-BE |            |               |  |  |  |  |  |    |  |                      |          |
| SW16_SW_20241203                                                                                                                                                                                                                                                                                                            | 9.26                          | 7.61                | 0.14            | 12/03/2024 12:50 | SW     | X             |               |            |               |  |  |  |  |  | 11 |  |                      |          |
| SW03_SW_20241203                                                                                                                                                                                                                                                                                                            | 6.42                          | 7.31                | 0.29            | 12/03/2024 14:15 | SW     | X             |               |            |               |  |  |  |  |  | 11 |  |                      |          |
| SW10_SW_20241203                                                                                                                                                                                                                                                                                                            | 8.88                          | 7.34                | 0.16            | 12/03/2024 14:50 | SW     | X             |               |            |               |  |  |  |  |  | 11 |  |                      |          |
| SW28A_SW_20241203                                                                                                                                                                                                                                                                                                           | 9.76                          | 7.6                 | 0.17            | 12/03/2024 15:10 | SW     | X             |               |            |               |  |  |  |  |  | 11 |  |                      |          |
| SW29A_SW_20241203                                                                                                                                                                                                                                                                                                           | 4.55                          | 0.76                |                 | 12/03/2024 15:10 | SW     | X             |               |            |               |  |  |  |  |  | 11 |  |                      |          |

| Signature   | Date/Time            | Shipping Details            | ATTN | Special Instructions:                                 |
|-------------|----------------------|-----------------------------|------|-------------------------------------------------------|
| Shipped by  | 12/4/2024 9:00:00 AM | Method of Shipment: Courier |      |                                                       |
|             |                      | On Ice: yes / no            |      |                                                       |
| Received by |                      | Shipped: Air/Ground         |      | Email Invoice to:                                     |
|             |                      | Lab Name: ALS Thunder Bay   |      | rainyriver.accounts1@newgold.com                      |
|             |                      | Lab Phone:                  |      | Email Report to:<br>rainyriver.labresults@newgold.com |

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

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

| Signature   | Date/Time            | Shipping Details                                                                    | ATTN | Special Instructions:                                                                                                        |
|-------------|----------------------|-------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------|
| Shipped by  | 12/4/2024 9:00:00 AM | <b>Method of Shipment:</b> Courier<br><b>On Ice:</b> yes / no                       |      |                                                                                                                              |
| Received by |                      | <b>Shipped:</b> Air/Ground<br><b>Lab Name:</b> ALS Thunder Bay<br><b>Lab Phone:</b> |      | <b>Email Invoice to:</b><br>rainyriver.accounts1@newgold.com<br><b>Email Report to:</b><br>rainyriver.labresults@newgold.com |

# Intake and Login Verification Form

| SAMPLE INTAKE                                |                                          |                                     |                                            |
|----------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|
| Priority/Emergency Service Requested         | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Time Sensitive Hold Time                     | YES                                      | <input checked="" type="radio"/> NO |                                            |
| Client:                                      | New Gold                                 |                                     |                                            |
| SAMPLE RECEIPT INFORMATION                   |                                          |                                     |                                            |
| Mode of Delivery:                            | <input checked="" type="radio"/> Courier | Drop Off                            |                                            |
| Courier                                      | Manitoulin                               |                                     |                                            |
| Waybill Number                               | 330 3519929                              |                                     |                                            |
| Temperature                                  | 6.3, 4.8, 4.9, 5.8, 4.4, 5.9             | Cooler Count 6                      |                                            |
| Cooling Method                               | None                                     | Ice                                 | <input checked="" type="radio"/> Ice Packs |
| SAMPLE MATRIX/BOTTLE INFORMATION             |                                          |                                     |                                            |
| Matrix:                                      | <input checked="" type="radio"/> Water   | Soil                                | Air                                        |
|                                              |                                          | Biota                               | Other                                      |
| DW Schedule 24 Bottles Correct?              |                                          | Yes                                 | No                                         |
| DW Metals pH Check <2                        |                                          | Yes                                 | No                                         |
| Regulation Circled, Works # present          |                                          | Yes                                 | No Reject?                                 |
| # of Bottles:                                | 11                                       | Sample Count                        | 19                                         |
| Green/white                                  | 19 Routine, 19 ROD                       |                                     |                                            |
| Purple/white                                 | 19 Nuts, 19 TGS, 19 Doc                  |                                     |                                            |
| Warm red/white                               | 19 Tot. M, 19 Diss M                     |                                     |                                            |
| Yellow/black                                 | 19 Tot. Hg, 19 Diss Hg                   |                                     |                                            |
| Light blue/white                             |                                          |                                     |                                            |
| Orange/black                                 |                                          |                                     |                                            |
| Others (detail)                              | 19 Cyanide<br>19x2 GGG                   |                                     |                                            |
| Comments on Samples and Bottles:             |                                          |                                     |                                            |
| Samples Requiring Preservation or Filtering: |                                          |                                     |                                            |
| Doc, Diss Metals, Diss Hg → FP               |                                          |                                     |                                            |
| Layout Staff Initials                        | LV                                       |                                     |                                            |
| Date and Time of Layout                      | 12/5/24 12:40                            |                                     |                                            |

| ACCOUNT INFO VERIFICATION                                        |                                      |                                     |
|------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| Priority/Emergency Service Requested                             | YES                                  | <input checked="" type="radio"/> NO |
| Confirmed all as accurate as per COC, Sample Remarks or PM       |                                      |                                     |
| Client                                                           | Work Contact                         | Quote                               |
| RECEIPT DETAIL                                                   |                                      |                                     |
| Project                                                          | PO                                   | Site/LSD                            |
| Overall Description Entered                                      | Yes                                  | <input checked="" type="radio"/> NA |
| Received date/time as per COC                                    |                                      |                                     |
| Recipients match CoC or Sample Remarks                           | <input checked="" type="radio"/> Yes | No                                  |
| Billing Instruction added to remarks                             | <input checked="" type="radio"/> Yes | NA                                  |
| Sample Remarks/Specification Doc checked                         | <input checked="" type="radio"/>     |                                     |
| Submission Issues communicated                                   | Yes                                  | <input checked="" type="radio"/> NA |
| Sample Info communicated via Remarks                             | Yes                                  | <input checked="" type="radio"/> NA |
| VERIFICATION CHECKLIST                                           |                                      |                                     |
| Planned Event Submission                                         | <input checked="" type="radio"/> Yes | No                                  |
| Sample Name entered as per CoC                                   | <input checked="" type="radio"/>     |                                     |
| Sampling Date and time entered as per CoC                        | <input checked="" type="radio"/>     |                                     |
| Containers selected in layout order                              | <input checked="" type="radio"/>     |                                     |
| Sales items entered from QUOTE ONLY (and/or verified as correct) | <input checked="" type="radio"/>     |                                     |
| Field Data/EC298A removed if not on COC                          | Yes                                  | <input checked="" type="radio"/> NA |
| Bottle Allocation Verified                                       | <input checked="" type="radio"/>     |                                     |
| Guideline added or auto-allocated                                | <input checked="" type="radio"/>     |                                     |
| Due dates updated                                                | <input checked="" type="radio"/>     |                                     |
| VALIDATION                                                       |                                      |                                     |
| Validation errors resolved?                                      | <input checked="" type="radio"/> Yes | No                                  |
| Internal Sublet CoC created                                      | <input checked="" type="radio"/> Yes | NA                                  |
| Login Comments:                                                  |                                      |                                     |
| Login Staff Initials:                                            | AL                                   |                                     |

2024 Annual Surface Water Report  
Appendix E

Surface Water Sampling and Monitoring Plan

|                                                                                 |                                                                                                                     |                                                                                                                           |                                                                                                                           |                             |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  | <b>Document Number:</b><br>ENV-PLN-0009                                                                             | <b>Revision:</b><br>00                                                                                                    | <b>Status:</b><br>Approved                                                                                                | <b>Date:</b><br>2025-Jan-30 |
| <b>Document Title:</b><br>Surface Water Sampling and Monitoring Plan            | <b>Author:</b><br>Nathan Baird<br> | <b>Checker:</b><br>Karien Scheepers<br> | <b>Approver:</b><br>Garnet Cornell<br> | <b>Page:</b><br>1 of 10     |

*Karien Scheepers*

# **ENV-PLN-0009** **Surface Water Sampling and Monitoring Plan**

| Revision History |               |          |              |                  |                |                                                |
|------------------|---------------|----------|--------------|------------------|----------------|------------------------------------------------|
| Revision Index   | Revision Date | Status   | Author       | Checker          | Approver       | Comments                                       |
| 00               | 2025-JAN-30   | Approved | Nathan Baird | Karien Scheepers | Garnet Cornell | Updated draft and reviewed sampling locations. |
|                  |               |          |              |                  |                |                                                |
|                  |               |          |              |                  |                |                                                |

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## 1.0 Purpose

Pursuant to ECA #2290-CAVKGN Condition 10, New Gold Rainy River Mine has created a Surface Water Sampling and Monitoring Plan to manage the conditions related to surface water monitoring and sampling in the ECA and all other regulatory requirements.

## 2.0 Scope

The objective of this plan is to guide field staff to collect surface water samples with accurate field data that are representative of existing conditions at the time of monitoring and sampling. This plan also provides guidance to collect other samples that overlap with the surface water monitoring and sampling program. Field conditions may vary from the outlined protocols, which will be documented and reported as needed.

### 2.1. Monitoring Plan Framework

This monitoring plan will include photographic record of site conditions at the time of sample collection. Photographs are taken to track changes in sample site condition over time and to determine if the sample site remains representative. Monitoring of surface water quality was committed to within the application for the ECA(s).

The ECA contains the following commitments:

- All samples and measurements are to be taken at a time (monthly) and location characteristic of the quality and quantity of surface water over the period being monitored (10(1)),
- A long-term study to evaluate the potential effects of effluent discharges to the Pinewood River watershed, harmonized with the federal EEM program (10(9)),
- A long-term study to evaluate the potential loadings of sulphate and mercury to the Pinewood River watershed.

This plan describes the methodology for surface water sampling, and other samples that overlap with the surface water monitoring program.

## 3.0 Responsibilities

### 3.1. Environmental Technicians and Monitors

- Follow all procedures related to the Surface Water Sampling and Monitoring Plan during the collection of surface water samples and monitoring data.

### 3.2. Environmental Supervisor and Environmental Engineer

- Create the annual surface water monitoring schedule according to the Surface Water Monitoring Plan.
- Review and update the Surface Water Sampling and Monitoring Plan and all surface water sample and monitoring data.
- Prepare the annual Surface Water Monitoring Report by March 31 each year.

## 4.0 Sampling Standards

The methods and protocols for surface water sampling, analysis and recording described herein are intended to conform to these methods and protocols:

|                                     |                                           |                                      |                            |                        |                                |
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- The Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 2017), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions,
- The publication "Standard Methods for the Examination of Water and Wastewater" (21<sup>st</sup> edition), as amended from time to time by more recently published editions [Rice et al. 2012].

## 5.0 Surface Water Sampling and Monitoring Planning

### 5.1. Planning Activities

- Sample kits are on standing order from an external laboratory for planned sampling events including quality assurance / quality control kits.
- Ensure there is enough availability of filter kits and preservatives for the filtering process, if not place an order with the laboratory (open water season).
- Clean and check field instruments such as sampling pole and multimeter.
- Perform full calibration on the multimeter every 7 days. Perform Quick calibration on the multimeter prior to each sampling event.
- Schedule the sampling/monitoring according to the Surface Water Sampling Schedule in Table 1.
- Schedule other sampling/monitoring that overlaps the Surface Water Sampling Schedule in Table 2.

### 5.2. Surface Water Sampling Schedule

Table 1 lists the surface water sampling schedule (as specified by Table 10 of the ECA).

**Table 1: New Gold RRM Surface Water Sampling Schedule**

| Monitoring Stations | Frequency                                                                      | Sample Type |
|---------------------|--------------------------------------------------------------------------------|-------------|
| All locations (16)  | Monthly, before 10 <sup>th</sup> of the month (during discharge when possible) | Grab        |

Table 2 lists the locations of the surface water sampling locations (as specified by Table 9 of the ECA).

**Table 2: New Gold RRM Surface Water Location and Description**

| Sampling Location | Description                                                  | UTM Coordinates (NAD 83)<br>(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 EDL2                            | 15, 422189, 5409251                                  |
| SW22A             | Pinewood River - downstream of 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, 430039, 5408481                                  |

|                                     |                                           |                                      |                            |                        |                                |
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|       |                                                                                              |                     |
|-------|----------------------------------------------------------------------------------------------|---------------------|
| 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 |
| 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 |
| SW29A | McCallum Creek – After 7-Bends along HWY 600 as it enters OB land 03. North side of culvert. | 15, 418871, 5413491 |
| SW16  | Rainy River - upstream of the Pinewood River confluence                                      | 15, 438855, 5385790 |
| SW17  | Rainy River - downstream of the Pinewood River confluence                                    | 15, 393195, 5394425 |

The monitoring programs that overlap the surface water sampling program are the mercury and sulfate loadings long-term study, and the *Metal and Diamond Mining Effluent Regulation* (MDMER) Schedule 5, Part 1 Water Quality Monitoring. Table 3 lists the locations of the mercury and sulphate loading long-term study samples and the MDMER water quality monitoring samples that overlap with the surface water monitoring plan.

**Table 3: New Gold RRM Mercury and Sulphate Loadings and MDMER Water Quality Monitoring Samples overlap with Surface Water Monitoring**

| Program - Sample Location Name                     | Overlapping Surface Water Location | Frequency / Other requirements                                                       |
|----------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|
| Methyl/Sulfate – Site 1                            | NA – Teeple Culvert                | During open water, methyl mercury, total and dissolved mercury and sulphate analyzed |
| Methyl/Sulfate – Site 2/<br>MDMER – EDL2 Reference | SW20                               | During open water, methyl mercury and every month, Ra-226                            |
| Methyl/Sulfate – Site 3                            | SW10                               | During open water, methyl mercury added                                              |
| Methyl/Sulfate – Site 4/<br>MDMER – EDL2 Exposure  | SW22A                              | During open water, methyl mercury and every month, Ra-226                            |
| Methyl/Sulfate – Site 5                            | SW03                               | During open water, methyl mercury added                                              |
| Methyl/Sulfate – Site 6/<br>MDMER – EDL1 Exposure  | SW24                               | During open water, methyl mercury and every month, Ra-226                            |
| MDMER – EDL1 Reference                             | SW23                               | Ra-226 added                                                                         |

### 5.3. Surface Water Quality Sampling Parameters

Table 4 provides the surface water sampling parameters (as specified by Table 10 of the ECA).

**Table 4: New Gold RRM Surface Water Quality Sampling Parameters**

| Monitoring Stations | Parameters                                                                                                                                                                              | Sample Type |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                     | Field temperature, field pH, field dissolved oxygen, field conductivity, field ORP                                                                                                      | In-situ     |
|                     | pH, acidity, alkalinity, hardness, total suspended solids, total dissolved solids, turbidity, conductivity, chloride, fluoride, sulfate, orthophosphate, total Kjeldahl nitrogen, total |             |

|                                     |                                           |                                      |                            |                        |                                |
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| Monitoring Stations                                                         | Parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sample Type |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| All locations (16)                                                          | ammonia, nitrate, nitrite, total organic carbon, dissolved organic carbon, colour, chemical oxygen demand, biological oxygen demand, total oil and grease, total cyanide, weak acid dissociable cyanide, free cyanide, ICP metal scan for total and dissolved metals including aluminum, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, chromium, cobalt, copper, iron, lead, lithium, magnesium, manganese, mercury, molybdenum, nickel, phosphorus, potassium, rubidium, selenium, silicon, silver, sodium, strontium, sulfur, tellurium, thallium, thorium, tin, titanium, tungsten, uranium, vanadium, zinc and zirconium | Grab        |
|                                                                             | Un-ionized ammonia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Calculated  |
|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| Methyl Mercury<br>Sites 1-6 (Teeple Culvert, SW20, SW10, SW03, SW22A, SW24) | Methyl Mercury                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Grab        |
| Methyl Mercury Site 1                                                       | Total and dissolved mercury, sulphate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Grab        |
| MDMER Reference and Exposure Sites – SW20, SW22A, SW23, SW24                | Radium-226                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Grab        |

Samples may also be analyzed for other parameters which are required for other monitoring commitments.

#### 5.4. Surface Water Quality Analysis

The analysis of surface water sample quality will be in accordance with the Analytical Test Groups, Parameters and Detection Limits presented in Table 1, Chapter 8 of the *Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater, Version 2.0*, published by the MECP in January 2016.

#### 5.5. Surface Water Sampling Scheduling Considerations

The following considerations are required when scheduling surface water sampling:

- Samples should be collected by the 10<sup>th</sup> of the month, when possible, to allow for re-sampling where required,
- Samples should be collected during discharge, when possible, to ensure MDMER Water Quality Monitoring commitments and methyl/sulfate loadings study commitments are met,
- Samples should be collected over the shortest period possible (1-2 days),
- Samples should be shipped within 48 hours of collection to ensure hold times are met.

|                                     |                                           |                                      |                            |                        |                                |
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## 6.0 Surface Water Monitoring and Sampling Procedure

### 6.1. Site Inspection

- Upon arriving at a surface water sampling location, visually inspect the surrounding area.
- Document any abnormal conditions with photographs.
- Capture photographs of the upstream, downstream, near bank and far bank of the sampling location during sample collection.

Winter sampling presents additional challenges for sample collection. Ice safety protocols should always be adhered to, sample collection should not proceed if ice conditions are unsafe.

### 6.2. Transducer Downloads

At times, you may be requested to download transducer data from Solinst Level loggers and Baro loggers that are in the vicinity of a surface water sampling location while you are in the area. This data is not specific to the Surface Water Monitoring Plan, but it is an important task related to other on-going monitoring programs. A location map will be provided, when required.

### 6.3. Sampling Equipment

The following sampling specified equipment is required for the collection of surface water samples:

- Sample collection pole
- Proper PPE
- Surface water sampling kits and preservatives from external laboratory
- Field filter kit (non-freezing conditions only)
- Methyl mercury and Radium bottles, where required
- Nitrile gloves
- Field water quality meter, calibrated (external – annually, internal – weekly)
- Lifejackets
- Snowmobile and helmets (SW21A, SW22A, and SW27, winter only)
- Pike pole, ice auger, ice strainer (winter only)

### 6.4. Sample Collection

Before sample collection, document the sample location, date, and time on the sample bottles. Clean nitrile gloves are to be used at each sample location. Follow these steps to collect the sample:

- Utilizing a sample collection pole, triple rinse the sample collection bottle and fill the sample bottles that do not require filtration.
- Ensure not to overfill bottles that are pre-charged with preservative.
- Use the field filter kit in non-freezing conditions to filter the required sample bottles and add preservative as specified on the sample bottle.
- If the field filter kit is not used, do not preserve the bottles, and notify the external laboratory that lab filtration is required.
- Samples collected in the field are to be stored in cooler with ice packs during hot weather and protected from freezing in freezing conditions, then placed in the laboratory refrigerators until shipment.

Note:

- Collection of samples from below ice level by hand, using a sample bottle that is not pre-charged from the sampling kit is an acceptable winter sample collection method. Make sure to avoid collection of ice in sample bottles to prevent dilution of the collected sample.

|                              |                                       |                               |                     |                 |                         |
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- Documentation of site conditions with photographs should still take place even if samples are not collected for any reason. The reason for not collecting a sample should be clearly documented.

#### 6.5. Submission of Sample to External Laboratory

All samples that need to be shipped by courier should be transported in a well-sealed cooler with ice packs. Completed Chain of Custody forms are sent to the laboratory electronically, or alternatively in the cooler.

Samples should be transported to the laboratory to meet required holding times, typically within two business days of collection. The timing of sample submissions should be according to the specified hold times for the parameters tested and try to avoid potential delays in shipments or receiving at the lab (such as Fridays and/or before long weekends).

#### 6.6. Documentation

Surface water monitoring and sampling data will be recorded in a field book, or on a mobile data collection form, and will include the following:

- Name of samplers,
- Time and date of sample collection,
- Sample location condition, if changed,
- Sampling equipment, i.e. if sampling pole or other method used, field meter number
- Field water quality data including pH, temperature, conductivity, dissolved oxygen, oxidative reductive potential (ORP), turbidity (when requested),
- Duplicate sample and/or field blank (if applicable)
- Collection of methyl mercury and/or radium sample, where required
- Any abnormal observations regarding the sample location
- Reason for any missed sample collection (unsafe ice conditions, lack of flow, no access, etc.)

### 7.0 Quality Assurance/Control

#### 7.1. Background

All activities from the planning stages of the sampling events through to the final submission of samples and analysis are part of the QA/QC protocols including:

- Development of data quality objectives,
- Sampling procedures and preservation,
- Sample transport, and
- Sample analysis and correct selection of method detection limits.

The role of the QA/QC program is to minimize the possibility of errors at any of these stages. QA is defined as a management function which includes preparation of:

- Protocols for field personnel to obtain appropriate and defensible results; and
- Documentation that demonstrates that QC procedures have been followed.

QC consists of activities carried out during a sampling event at the field level that are recorded by field personnel become part of the QA documentation.

|                                     |                                           |                                      |                            |                        |                                |
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To ensure that the laboratory of choice is producing data of acceptable quality, it is preferred practice to submit field QA/QC samples, consisting of field duplicates (blind), travel blanks and travel spiked blanks (as per MISA Section 4.4):

- Blind field duplicates are used for external QA/QC on lab results, and
- Travel blanks are to detect anomalies as arising from sampling procedure in the field, shipment and/or handling in the lab

New Gold RRM collects the following QA/QC samples at the noted frequency for surface water:

- Field Duplicates – 1 per sample round,
- Field Blanks – 1 per sample round,
- Travel Blanks – 1 per sample round.

## 7.2. Field Duplicates

Field duplicate samples are taken at the same time as the intended test sample in a manner that minimizes the difference between the two samples (the original and the field duplicate). Field duplicates will be scheduled with care to randomize and avoid multiple duplicates of the same sites within the same year. These samples are not effective if they can be easily identified at the laboratory through naming or visual similarity, therefore all surface water field duplicates will be labelled SW06 with the time collected as noon (1200)

Going forward, the number of field duplicates may increase when a parameter of interest has been measured above the detection limit in previous sampling rounds. Limited information on field duplicate reproducibility can be obtained when samples containing non-detectable levels of the parameters of interest are submitted for analysis.

## 7.3. Travel and Field Blanks

Travel and field blanks are intended to identify any contamination of samples during shipment or while collecting samples, respectively. Field and travel blanks will be used for every surface water sampling round.

A field blank is an empty sample kit to be filled with laboratory-provided traceable deionized water (DI water) in the field. The field blank sample kit is sent with the sample kit shipment, taken out to the field, filled with DI water during sample collection, and then shipped back with collected samples to be analyzed. The field blank is not preserved or filtered. The location which the field blank was filled with DI water should be noted in the event some contaminant is detected.

A travel blank is a pre-filled sampling bottle sent by the lab with the sample kit shipment. It is not to be opened. The travel blank should be taken along with other sampling kits during the sampling event and then shipped back with the samples collected.

## 8.0 References

- ECA # 2290-CAVKGN
- Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater (January 2017), ISBN 0-7778-1880-9
- Standard Methods for the Examination of Water and Wastewater (21<sup>st</sup> edition)
- SAF-SOP-0045 Working Around Water

**Department:**

Environmental

**Review**
**Frequency:**

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2025-JAN-30

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**Author:**

Nathan Baird

|                                                                                  |                                         |                                     |                                    |                             |
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## ENV-PLN-0009 – Surface Water Sampling and Monitoring Plan

### ACCEPTANCE Form

I (print name) \_\_\_\_\_ have read the above procedure and acknowledge the expectations set at the Rainy River Mine Site.

*It is the responsibility of all personnel and contractors to ensure that they are aware of all current standard operating procedures that relate to the mining operation. Standard Operating Procedures are working documents and are the minimum standard required. Changes will be made to the content of these standard operating procedures on an as required basis. Circumstances will require changes to standard operating procedures during operations and your Supervisor will inform you of any changes.*

Signed: \_\_\_\_\_

Date: \_\_\_\_\_



# ENV-PLN-0009 Surface Water Sampling and Monitoring Plan

Final Audit Report

2025-01-30

|                 |                                              |
|-----------------|----------------------------------------------|
| Created:        | 2025-01-30                                   |
| By:             | Kaitlin Cain (kaitlin.cain@newgold.com)      |
| Status:         | Signed                                       |
| Transaction ID: | CBJCHBCAABAAJR_zQOUI7R-2pe3AzRwzkl2GULkRBAk4 |

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2024 Annual Surface Water Report  
Appendix F

Water Quality Field Meters Calibration Records

2024 Annual Surface Water Report  
Appendix F

Field Meters Full Calibration Records

| HANNA Multimeter Full Calibration |         |                  |                      |                        |                      |                        |                       |                         |                       |                                |       |                        |                |                         |                       |
|-----------------------------------|---------|------------------|----------------------|------------------------|----------------------|------------------------|-----------------------|-------------------------|-----------------------|--------------------------------|-------|------------------------|----------------|-------------------------|-----------------------|
| Date                              | HANNA # | Calibration Type | pH 7 Buffer Solution | pH 7 After Calibration | pH 4 Buffer Solution | pH 4 After Calibration | pH 10 Buffer Solution | pH 10 After Calibration | Conductivity Standard | Conductivity After Calibration | % DO  | % DO After Calibration | % ORP Standard | % ORP After Calibration | Maintenance Performed |
| 1/5/2024                          | 2       | Single Point     | 7.03                 | 7.01                   | 4                    | 4.07                   | 10.06                 | 9.95                    | 1413                  | 1617                           | 100   | 98                     | 240            | 246                     | No                    |
| 1/5/2024                          | 1       | Single Point     | 7.03                 | 7                      | 4                    | 3.97                   | 10.06                 | 10.05                   | 1413                  | 1630                           | 100   | 100                    | 240            | 237.6                   | No                    |
| 1/12/2024                         | 1       | Single Point     | 7.05                 | 7.06                   | 3.99                 | 4                      | 10.12                 | 10.08                   | 1413                  | 1570                           | 100   | 108.5                  | 240            | 241.2                   | No                    |
| 1/12/2024                         | 2       | Single Point     | 7.05                 | 6.97                   | 3.99                 | 3.96                   | 10.12                 | 10                      | 1413                  | 1720                           | 100   | 102.4                  | 240            | 241.3                   | No                    |
| 1/19/2024                         | 1       | Single Point     | 7.03                 | 7.05                   | 4                    | 3.92                   | 10.06                 | 10.02                   | 1413                  | 1586                           | 100   | 105.2                  | 240            | 243.6                   | No                    |
| 1/19/2024                         | 2       | Single Point     | 7.03                 | 7.01                   | 4                    | 4.07                   | 10.06                 | 10.06                   | 1413                  | 1582                           | 100   | 106.3                  | 240            | 246.5                   | No                    |
| 1/28/2024                         | 2       | Single Point     | 7.03                 | 6.91                   | 4                    | 4                      | 10.06                 | 10.07                   | 1413                  | 1534                           | 100   | 100.8                  | 240            | 244.1                   | No                    |
| 1/28/2024                         | 1       | Single Point     | 7.03                 | 6.94                   | 4                    | 3.96                   | 10.06                 | 10.02                   | 1413                  | 1511                           | 100   | 107.1                  | 240            | 240.5                   | No                    |
| 2/2/2024                          | 2       | Single Point     | 7.01                 | 7.01                   | 4.01                 | 3.99                   | 10.01                 | 10.1                    | 1413                  | 1527                           | 100   | 86.5                   | 240            | 240.8                   | Yes                   |
| 2/2/2024                          | 1       | Single Point     | 7.01                 | 6.93                   | 4.01                 | 4.02                   | 10.01                 | 10.02                   | 1413                  | 1514                           | 100   | 100                    | 240            | 240.8                   | No                    |
| 2/11/2024                         | 1       | Single Point     | 7.03                 | 7.07                   | 4                    | 4.02                   | 10.06                 | 10.17                   | 1413                  | 1675                           | 100   | 98.7                   | 240            | 241.7                   | Yes                   |
| 2/11/2024                         | 2       | Single Point     | 7.03                 | 6.94                   | 4                    | 4.04                   | 10.06                 | 10.12                   | 1413                  | 1706                           | 100   | 92.2                   | 240            | 240.5                   | No                    |
| 2/16/2024                         | 2       | Single Point     | 7.05                 | 7.19                   | 3.99                 | 4.12                   | 10.12                 | 10.28                   | 1147                  | 1628                           | 100   | 100.3                  | 240            | 251.4                   | No                    |
| 2/16/2024                         | 1       | Single Point     | 7.05                 | 7.05                   | 3.99                 | 4.2                    | 10.12                 | 9.82                    | 1147                  | 1590                           | 100   | 116.1                  | 240            | 240.5                   | No                    |
| 2/24/2024                         | 1       | Single Point     | 7.01                 | 6.96                   | 4.01                 | 3.84                   | 10.01                 | 10.1                    | 1413                  | 1670                           | 100   | 105.7                  | 240            | 240.7                   | No                    |
| 2/24/2024                         | 2       | Single Point     | 7.01                 | 6.94                   | 4.01                 | 3.99                   | 10.01                 | 10.04                   |                       |                                | 100   | 99.5                   | 240            | 240.5                   | No                    |
| 3/1/2024                          | 2       | Single Point     | 7.03                 | 7.14                   | 4                    | 4.2                    | 10.06                 | 10.17                   | 1413                  | 1624                           | 100   | 101                    | 240            | 244.9                   | No                    |
| 3/1/2024                          | 1       | Single Point     | 7.03                 | 6.95                   | 4                    | 3.94                   | 10.06                 | 9.99                    | 1413                  | 1848                           | 100   | 104                    | 240            | 245.7                   | No                    |
| 3/12/2024                         | 1       | Single Point     | 7.01                 | 6.98                   | 4.01                 | 3.98                   | 10.01                 | 10.16                   | 1413                  | 1790                           | 100   | 107.4                  | 240            | 240.9                   | No                    |
| 3/12/2024                         | 2       | Single Point     | 7.01                 | 6.79                   | 4.01                 | 3.86                   | 10.01                 | 9.98                    | 1413                  | 1787                           | 100   | 107.6                  | 240            | 240.4                   | No                    |
| 3/15/2024                         | 2       | Single Point     | 7.02                 | 7.29                   | 4                    | 4.22                   | 10.06                 | 10.35                   | 1413                  | 1775                           | 100   | 75                     | 240            | 242                     | Yes                   |
| 3/15/2024                         | 1       | Single Point     | 7.02                 | 7.02                   | 4                    | 4.05                   | 10.06                 | 10.1                    | 1413                  | 1905                           | 100   | 104.1                  | 240            | 242.1                   | No                    |
| 3/24/2024                         | 1       | Single Point     | 7.01                 | 6.96                   | 4.01                 | 4.12                   | 10.01                 | 10.16                   | 1413                  | 1568                           | 100   | 103.6                  | 240            | 240.5                   | Yes                   |
| 3/24/2024                         | 2       | Single Point     | 7.01                 | 7.1                    | 4.01                 | 4.11                   | 10.01                 | 10.25                   | 1413                  | 1592                           | 100   | 115.6                  | 240            | 240.9                   | No                    |
| 3/29/2024                         | 2       | Single Point     | 7.02                 | 7.03                   | 4                    | 4.2                    | 10.06                 | 10.29                   | 1413                  | 1617                           | 100   | 129                    | 240            | 236.9                   | No                    |
| 3/29/2024                         | 1       | Single Point     | 7.02                 | 7.02                   | 4.01                 | 4.19                   | 10.06                 | 10.24                   | 1413                  | 1668                           | 100   | 100                    | 240            | 237.4                   | Yes                   |
| 4/8/2024                          | 1       | Single Point     | 7.02                 | 7.13                   | 4                    | 4.15                   | 10.06                 | 10.19                   | 1413                  | 1588                           | 100   | 98.2                   | 240            | 241.1                   | No                    |
| 4/8/2024                          | 2       | Single Point     | 7.02                 | 7.05                   | 4                    | 4                      | 10.06                 | 10.05                   | 1413                  | 1505                           | 100   | 99.3                   | 240            | 241.2                   | Yes                   |
| 4/12/2024                         | 1       | Single Point     | 7.02                 | 7.02                   | 4                    | 4.08                   | 10.06                 | 10.18                   | 1413                  | 1839                           | 100   | 110                    | 240            | 246.5                   | No                    |
| 4/12/2024                         | 2       | Single Point     | 7.02                 | 6.93                   | 4                    | 3.94                   | 10.06                 | 10.1                    | 1413                  | 1673                           | 100   | 100                    | 240            | 246                     | No                    |
| 4/19/2024                         | 1       | Single Point     | 7.01                 | 7.05                   | 4.01                 | 4.03                   | 10.01                 | 10.08                   | 1413                  | 1539                           | 100   | 93.6                   | 240            | 241.1                   | Yes                   |
| 4/19/2024                         | 2       | Single Point     | 7.01                 | 7.01                   | 4.01                 | 4.05                   | 10.01                 | 10.08                   | 1413                  | 1416                           | 240   | 242.7                  | 100            | 107.3                   | Yes                   |
| 4/26/2024                         | 2       | Single Point     | 7.02                 | 7.08                   | 4                    | 4.08                   | 10.06                 | 10.15                   | 1413                  | 1867                           | 100   | 106.7                  | 240            | 243.2                   | No                    |
| 4/26/2024                         | 1       | Single Point     | 7.02                 | 7.17                   | 4                    | 4.14                   | 10.06                 | 10.15                   | 1413                  | 1894                           | 100   | 93.5                   | 240            | 243.5                   | No                    |
| 5/3/2024                          | 1       | Single Point     | 7.02                 | 6.99                   | 4                    | 4.07                   | 10.06                 | 10.14                   | 1413                  | 1409                           | 100   | 97.4                   | 240            | 240.9                   | Yes                   |
| 5/3/2024                          | 2       | Single Point     | 7.02                 | 7.03                   | 4                    | 4.06                   | 10.06                 | 10.16                   | 1413                  | 1338                           | 100   | 99.6                   | 240            | 242.1                   | Yes                   |
| 5/10/2024                         | 2       | Single Point     | 7.02                 | 7.17                   | 4                    | 4.2                    | 10.06                 | 10.23                   | 1413                  | 1983                           |       |                        | 240            | 243.7                   | No                    |
| 5/10/2024                         | 1       | Single Point     | 7.02                 | 7.15                   | 4                    | 4.09                   | 10.06                 | 10.12                   | 1413                  | 2055                           | 100   | 95                     | 240            | 238.5                   | No                    |
| 5/13/2024                         | 2       | Single Point     | 7.02                 | 7.15                   | 4                    | 4.18                   | 10.06                 | 10.16                   | 1413                  | 1481                           | 100   | 91                     | 240            | 226.1                   | Yes                   |
| 5/16/2024                         | 2       | Single Point     |                      |                        |                      |                        |                       |                         |                       |                                | 100   | 99.3                   |                |                         | Yes                   |
| 5/19/2024                         | 1       | Single Point     | 7.02                 | 6.88                   | 4                    | 4                      | 10.06                 | 10.02                   | 1413                  | 1570                           | 100   | 99.7                   | 240            | 240.8                   | Yes                   |
| 5/19/2024                         | 2       | Single Point     | 7.02                 | 6.94                   | 4                    | 3.93                   | 10.06                 | 10.08                   | 1413                  | 1585                           | 100   | 99.1                   | 240            | 241.4                   | Yes                   |
| 5/24/2024                         | 1       | Single Point     | 7.02                 | 7.09                   | 4                    | 4.03                   | 10.06                 | 10.12                   | 1413                  | 1583                           | 100   | 107                    | 240            | 239.2                   | No                    |
| 5/24/2024                         | 2       | Single Point     | 7.02                 | 7.12                   | 4                    | 4.15                   | 10.06                 | 10.21                   | 1413                  | 1574                           | 100   | 99.3                   | 240            | 230.3                   | No                    |
| 5/25/2024                         | 1       | Single Point     | 7.02                 | 7.09                   | 4                    | 4.03                   | 10.06                 | 10.12                   | 1413                  | 1583                           | 100   | 107                    | 240            | 239.2                   | No                    |
| 5/25/2024                         | 2       | Single Point     | 7.02                 | 7.12                   | 4                    | 4.15                   | 10.06                 | 10.21                   | 1413                  | 1574                           | 100   | 99                     | 240            | 230.3                   | No                    |
| 6/1/2024                          | 1       | Single Point     | 7.02                 | 7.06                   | 4                    | 4.07                   | 10.06                 | 10.15                   | 1413                  | 1681                           | 100   | 97.2                   | 240            | 240.5                   | No                    |
| 6/1/2024                          | 2       | Single Point     | 7.02                 | 7.03                   | 4                    | 3.97                   | 10.06                 | 10.04                   | 1413                  | 1690                           | 100   | 99.8                   | 240            | 240.2                   | Yes                   |
| 6/8/2024                          | 1       | Single Point     | 7.02                 | 6.97                   | 4                    | 4                      | 10.06                 | 10.07                   | 1413                  | 1770                           | 100   | 100.1                  | 240            | 242.8                   | No                    |
| 6/8/2024                          | 2       | Single Point     | 7.02                 | 7.02                   | 4                    | 4                      | 10.06                 | 10.06                   | 1413                  | 1719                           | 100   | 113                    | 240            | 237                     | No                    |
| 6/15/2024                         | 1       | Single Point     | 7.02                 | 7.01                   | 4                    | 4.17                   | 10.06                 | 10.2                    | 1413                  | 1811                           | 100   | 89.7                   | 240            | 240.1                   | No                    |
| 6/15/2024                         | 2       | Single Point     | 7.02                 | 7.02                   | 4                    | 4.06                   | 10.06                 | 10.17                   | 1413                  | 1675                           | 100   | 99.8                   | 240            | 240.1                   | No                    |
| 6/19/2024                         | 1       | Single Point     | 7                    | 7.15                   | 4                    | 4.09                   | 10                    | 10.12                   | 1413                  | 1422                           | 122.7 | 99.9                   | 240            | 241.6                   | No                    |
| 6/29/2024                         | 1       | Single Point     | 7.02                 | 6.88                   | 4                    | 3.84                   | 10.06                 | 10.03                   | 1413                  | 1409                           | 100   | 102.1                  | 240            | 240.3                   | No                    |
| 7/7/2024                          | 2       | Single Point     | 7.02                 | 7.14                   | 4                    | 4.13                   | 10.06                 | 10.18                   | 1413                  | 1561                           | 100   | 130.7                  | 240            | 241.9                   | No                    |
| 7/13/2024                         | 2       | Single Point     | 7.02                 | 6.97                   | 4                    | 4.01                   | 10.06                 | 10.04                   | 1413                  | 1785                           | 100   | 97.5                   | 240            | 242.9                   | No                    |
| 7/19/2024                         | 2       | Single Point     | 7.02                 | 7.09                   | 4                    | 4.1                    | 10.06                 | 10.17                   | 1413                  | 1700                           | 100   | 103.5                  | 240            | 234.4                   | Yes                   |

| Date       | HANNA #      | Calibration Type | pH 7 Buffer Solution | pH 7 After Calibration | pH 4 Buffer Solution | pH 4 After Calibration | pH 10 Buffer Solution | pH 10 After Calibration | Conductivity Standard | Conductivity After Calibration | % DO | % DO After Calibration | % ORP Standard | % ORP After Calibration | Maintenance Performed |
|------------|--------------|------------------|----------------------|------------------------|----------------------|------------------------|-----------------------|-------------------------|-----------------------|--------------------------------|------|------------------------|----------------|-------------------------|-----------------------|
| 7/29/2024  | 2            | Single Point     | 7.02                 | 6.97                   | 4                    | 3.98                   | 10.06                 | 10.01                   | 1413                  | 1789                           | 100  | 99.5                   | 240            | 244.5                   | Yes                   |
| 8/1/2024   | 2            | Single Point     | 7.02                 | 7.06                   | 4                    | 4.13                   | 10.06                 | 10.05                   | 1413                  | 1650                           | 99.7 | 101.6                  | 240            | 242.6                   | No                    |
| 8/7/2024   | 2            | Single Point     | 7.02                 | 7.06                   | 4                    | 4.13                   | 10.06                 | 10.05                   | 1413                  | 1650                           | 100  | 101.6                  | 240            | 242.6                   | No                    |
| 8/11/2024  | 2            | Single Point     | 7.02                 | 7.02                   | 4                    | 4.04                   | 10.6                  | 10.04                   | 1413                  | 1501                           | 100  | 100.2                  | 240            | 240.1                   | No                    |
| 8/16/2024  | 2            | Single Point     | 7.02                 | 7.21                   | 4                    | 4.05                   | 10.06                 | 10.23                   | 1413                  | 1599                           | 100  | 99.7                   | 240            | 233                     | No                    |
| 8/23/2024  | 2            | Single Point     | 7.02                 | 6.98                   | 4                    | 4.03                   | 10.06                 | 10.01                   | 1413                  | 1549                           | 100  | 72.4                   | 240            | 240.4                   | No                    |
| 8/28/2024  | 2            | Single Point     | 7                    | 7.01                   | 4                    | 3.93                   | 10.06                 | 9.85                    | 1413                  | 1663                           | 100  | 113                    | 240            | 241.8                   | Yes                   |
| 8/31/2024  | YSI          | Single Point     | 7                    | 6.93                   | 4                    | 4.01                   | 10.06                 | 10.09                   | 1413                  | 1457                           | 100  | 100.1                  | 240            | 240.5                   | Yes                   |
| 9/6/2024   | 2            | Single Point     | 7.02                 | 6.67                   | 4                    | 4.03                   | 10.06                 | 9.77                    | 1413                  | 1641                           | 100  | 102.8                  | 240            | 240.4                   | No                    |
| 9/11/2024  | YSI          | Single Point     | 7.02                 | 6.94                   | 4                    | 3.96                   | 10.06                 | 10.02                   | 1413                  | 1521                           | 100  | 90                     | 240            | 246.2                   | No                    |
| 9/13/2024  | YSI          | Single Point     | 7.02                 | 6.95                   | 4                    | 3.95                   | 10.06                 | 10.03                   | 1413                  | 1425                           | 100  | 94.00                  | 240            | 244.3                   | No                    |
| 9/13/2024  | 2            | Single Point     | 7.02                 | 7.04                   | 4                    | 4.06                   | 10.06                 | 10.04                   | 1413                  | 1763                           | 100  | 104                    | 240            | 240.2                   | Yes                   |
| 9/13/2024  | 2            | Single Point     | 7.02                 | 7.04                   | 4                    | 4.06                   | 10.06                 | 10.04                   | 1413                  | 1763                           | 100  | 104                    | 240            | 240.2                   | Yes                   |
| 9/20/2024  | 2            | Single Point     | 7.02                 | 6.95                   | 4                    | 3.93                   | 10.06                 | 10.08                   | 1413                  | 1536                           | 100  | 103.4                  | 240            | 240.6                   | No                    |
| 9/25/2024  | YSI          | Single Point     | 7                    | 6.96                   | 4                    | 4.03                   | 10.06                 | 10.11                   | 1413                  | 1503                           | 100  | 90.8                   | 240            | 240.05                  | No                    |
| 9/27/2024  | 2            | Single Point     | 7                    | 7.07                   | 4                    | 4.13                   | 10.06                 | 10.17                   | 1413                  | 1918                           | 100  | 100.3                  | 240            | 236.8                   | No                    |
| 9/27/2024  | YSI pro plus | Single Point     | 7                    | 6.92                   | 4                    | 4                      | 10.06                 | 10.05                   | 1413                  | 1529                           | 100  | 98.5                   | 240            | 241.7                   | Yes                   |
| 10/4/2024  | 2            | Single Point     | 7.01                 | 7.06                   | 4                    | 4.1                    | 10.01                 | 10.24                   | 1413                  | 1717                           | 100  | 97.3                   | 240            | 240.3                   | No                    |
| 10/4/2024  | 1            | Single Point     | 7.01                 | 6.97                   | 4                    | 3.99                   | 10.01                 | 10.05                   | 1413                  | 1304                           | 100  | 92.5                   | 240            | 240.5                   | No                    |
| 10/7/2024  | 1            | Single Point     | 7.01                 | 7.01                   | 4                    | 3.99                   | 10.01                 | 10.09                   | 1413                  | 1367                           | 100  | 99.3                   | 240            | 240                     | No                    |
| 10/7/2024  | 2            | Single Point     | 7.01                 | 7.01                   | 4                    | 3.99                   | 10.01                 | 10.07                   | 1413                  | 1403                           | 100  | 99.9                   | 240            | 244.3                   | No                    |
| 10/12/2024 | 1            | Single Point     | 7.02                 | 6.99                   | 4                    | 3.95                   | 10.06                 | 10.06                   | 1413                  | 1782                           | 100  | 91.6                   | 240            | 245                     | Yes                   |
| 10/12/2024 | 2            | Single Point     | 7.02                 | 7.1                    | 4                    | 4.1                    | 10.06                 | 10.15                   | 1413                  | 1867                           | 100  | 95                     | 240            | 241.6                   | No                    |
| 10/18/2024 | 1            | Single Point     | 7.02                 | 6.82                   | 4                    | 3.98                   | 10.06                 | 10.04                   | 1413                  | 1462                           | 100  | 92.2                   | 243.7          | 240                     | No                    |
| 10/25/2024 | 1            | Single Point     | 7.02                 | 7                      | 4                    | 4.05                   | 10.06                 | 10.05                   | 1413                  | 1710                           | 100  | 104                    | 240            | 241.8                   | Yes                   |
| 11/4/2024  | 1            | Single Point     | 7.01                 | 6.92                   | 4.01                 | 4                      | 10.01                 | 10.02                   | 1413                  | 1414                           | 100  | 97.8                   | 240            | 240.9                   | No                    |
| 11/4/2024  | WWTP2        | Single Point     | 7.01                 | 6.93                   | 4                    | 3.98                   | 10.01                 | 10.06                   | 1413                  | 1504                           | 100  | 99.2                   | 240.2          | 240                     | No                    |
| 11/8/2024  | 1            | Single Point     | 7.02                 | 7.19                   | 4                    | 4.2                    | 10.06                 | 10.29                   | 1413                  | 1611                           | 100  | 100                    | 240            | 243.8                   | No                    |
| 11/8/2024  | WWTP2        | Single Point     | 7.02                 | 7.02                   | 4                    | 4.06                   | 10.04                 | 10.18                   | 1413                  | 2228                           | 100  | 91.9                   | 240            | 235.9                   | No                    |
| 11/15/2024 | 1            | Single Point     | 7.01                 | 7.02                   | 4.01                 | 3.98                   | 10.01                 | 10.06                   | 1413                  | 1504                           | 100  | 99.2                   | 240            | 240.2                   | No                    |
| 11/22/2024 | 1            | Single Point     | 7                    | 7.06                   | 4                    | 4.15                   | 10.06                 | 9.93                    | 1413                  | 1658                           | 100  | 109                    | 240            | 249.5                   | Yes                   |
| 11/22/2024 | WWTP2        | Single Point     | 7                    | 7.05                   | 4                    | 4.06                   | 10.06                 | 10.09                   | 1413                  | 1500                           | 100  | 100                    | 240            | 249                     | Yes                   |
| 11/29/2024 | 1            | Single Point     | 7.01                 | 6.92                   | 4                    | 3.95                   | 10.06                 | 10.04                   | 1413                  | 1829                           | 100  | 99.7                   | 240            | 240.2                   | No                    |
| 12/2/2024  | 1            | Single Point     | 7.01                 | 7.05                   | 4                    | 3.96                   | 10.06                 | 10.06                   | 1413                  | 1410                           | 100  | 99.6                   | 240            | 240.5                   | Yes                   |
| 12/2/2024  | 2            | Single Point     | 7.01                 | 7.07                   | 4                    | 4.07                   | 10.06                 | 10.09                   | 1413                  | 1406                           | 100  | 100.1                  | 240            | 242.3                   | Yes                   |
| 12/7/2024  | WWTP2        | Single Point     | 7                    | 6.93                   | 4                    | 4.15                   | 10.06                 | 10                      | 1413                  | 1539                           | 100  | 85.40                  | 240            | 242.5                   | No                    |
| 12/7/2024  | 2            | Single Point     | 7                    | 7.1                    | 4                    | 4.15                   | 10.06                 | 10.08                   | 1413                  | 1382                           | 100  | 93.7                   | 240            | 242                     | No                    |
| 12/14/2024 | WWTP2        | Single Point     | 7.01                 | 7.02                   | 4                    | 4.05                   | 10.06                 | 10.08                   | 1413                  | 1544                           | 100  | 99.7                   | 240            | 240.8                   | No                    |
| 12/14/2024 | 1            | Single Point     | 7.01                 | 6.97                   | 4                    | 4.03                   | 10.06                 | 10.09                   | 1413                  | 1857                           | 100  | 99.8                   | 240            | 240.6                   | No                    |

2024 Annual Surface Water Report  
Appendix F

Field Meters Quick Calibration Records

HANNA Multimeter Quick Calibration Log

| Date      | HANNA # | Calibration Type | pH of Standard (Quick) | pH After Calibration (Quick) | Conductivity Standard | Conductivity After Calibration | % DO | % DO After Calibration | Maintenance Performed |
|-----------|---------|------------------|------------------------|------------------------------|-----------------------|--------------------------------|------|------------------------|-----------------------|
| 1/1/2024  | 2       | Quick            | 6.88                   | 6.76                         | 4523                  | 4981                           | 100  | 99.2                   | Yes                   |
| 1/2/2024  | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 2584                           | 100  | 99.9                   | No                    |
| 1/4/2024  | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 4925                           | 100  | 101                    | No                    |
| 1/8/2024  | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5048                           | 100  | 98.9                   | No                    |
| 1/10/2024 | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 5018                           | 100  | 97.7                   | No                    |
| 2/7/2024  | 2       | Quick            | 6.88                   | 6.79                         | 4523                  | 4983                           | 100  | 64.3                   | No                    |
| 2/12/2024 | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 5040                           | 100  | 99.6                   | No                    |
| 2/14/2024 | 1       | Quick            | 6.86                   | 6.85                         | 4523                  | 4758                           | 100  | 95.6                   | No                    |
| 2/19/2024 | 1       | Quick            | 6.86                   | 7.10                         | 4523                  | 5019                           | 100  | 85.7                   | No                    |
| 2/22/2024 | 1       | Quick            | 6.88                   | 6.83                         | 4523                  | 5004                           | 100  | 82.1                   | No                    |
| 2/22/2024 | 2       | Quick            | 6.88                   | 6.80                         | 4523                  | 5045                           | 100  | 99.3                   | No                    |
| 3/5/2024  | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 5019                           | 100  | 101.9                  | No                    |
| 3/5/2024  | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 4848                           | 100  | 97.5                   | No                    |
| 3/6/2024  | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 5009                           | 100  | 98.8                   | No                    |
| 3/8/2024  | 1       | Quick            | 6.88                   | 6.82                         | 4523                  | 4990                           | 100  | 79                     | No                    |
| 3/13/2024 | 2       | Quick            | 6.88                   | 6.87                         | 4523                  | 5022                           | 100  | 97.2                   | No                    |
| 3/20/2024 | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 4979                           | 100  | 98.4                   | Yes                   |
| 3/21/2024 | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 5002                           | 100  | 75.8                   | No                    |
| 4/3/2024  | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 4967                           | 100  | 99.6                   | No                    |
| 4/10/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 4994                           | 100  | 98.4                   | No                    |
| 4/17/2024 | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 4997                           | 100  | 99.3                   | No                    |
| 4/22/2024 | 2       | Quick            | 6.88                   | 6.80                         | 4523                  | 5093                           | 100  | 98.2                   | No                    |
| 4/29/2024 | 1       | Quick            | 6.88                   | 6.86                         | 4523                  | 5075                           | 100  | 100.5                  | No                    |
| 5/1/2024  | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 4991                           | 100  | 99.6                   | No                    |
| 5/4/2024  | 2       | Quick            | 6.88                   | 6.79                         | 4523                  | 5050                           | 100  | 98.6                   | No                    |
| 5/5/2024  | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 4950                           | 100  | 96.6                   | No                    |
| 5/6/2024  | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 4981                           | 100  | 96.2                   | No                    |
| 5/7/2024  | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 4996                           | 100  | 100.4                  | No                    |
| 5/8/2024  | 1       | Quick            | 6.88                   | 6.78                         | 4523                  | 5015                           | 100  | 96.4                   | No                    |
| 5/8/2024  | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 5040                           | 100  | 100.2                  | No                    |
| 5/12/2024 | 1       | Quick            | 6.88                   | 6.82                         | 4523                  | 5101                           | 100  | 100.1                  | No                    |
| 5/13/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 4960                           | 100  | 97.4                   | No                    |
| 5/13/2024 | 2       | Quick            | 6.88                   | 6.87                         | 4523                  | 5003                           | 100  | 95.7                   | No                    |
| 5/15/2024 | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 4956                           | 100  | 100.4                  | No                    |
| 5/16/2024 | 1       | Quick            | 6.88                   | 6.79                         | 4523                  | 5036                           | 100  | 99.4                   | No                    |
| 5/17/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 4987                           | 100  | 98.4                   | No                    |
| 5/17/2024 | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 5042                           | 100  | 99.3                   | No                    |
| 5/18/2024 | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 5034                           | 100  | 100                    | No                    |
| 5/20/2024 | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 5008                           | 100  | 100                    | No                    |
| 5/21/2024 | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 4965                           | 100  | 99.1                   | No                    |
| 5/27/2024 | 2       | Quick            | 6.88                   | 6.86                         | 4523                  | 4705                           | 100  | 90                     | No                    |
| 5/27/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 5033                           | 100  | 98                     | No                    |
| 5/29/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 4985                           | 100  | 98.8                   | No                    |
| 5/29/2024 | 2       | Quick            | 6.88                   | 6.81                         | 4523                  | 5004                           | 100  | 99.9                   | No                    |
| 5/30/2024 | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 4980                           | 100  | 97.4                   | No                    |
| 6/2/2024  | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 4956                           | 100  | 99.8                   | No                    |



| Date      | HANNA # | Calibration Type | pH of Standard (Quick) | pH After Calibration (Quick) | Conductivity Standard | Conductivity After Calibration | % DO  | % DO After Calibration | Maintenance Performed |
|-----------|---------|------------------|------------------------|------------------------------|-----------------------|--------------------------------|-------|------------------------|-----------------------|
| 6/3/2024  | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 4992                           | 100   | 100.3                  | No                    |
| 6/4/2024  | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 5011                           | 100   | 99.4                   | No                    |
| 6/4/2024  | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 5026                           | 100   | 99.8                   | No                    |
| 6/5/2024  | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5015                           | 100   | 99.7                   | No                    |
| 6/5/2024  | 1       | Quick            | 6.88                   | 6.82                         | 4523                  | 5026                           | 100   | 99.2                   | No                    |
| 6/12/2024 | 2       | Quick            | 6.88                   | 6.80                         | 4523                  | 5056                           | 100   | 99.5                   | No                    |
| 6/17/2024 | 2       | Quick            | 6.88                   | 6.81                         | 4523                  | 4970                           | 100   | 99.4                   | No                    |
| 6/19/2024 | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 4936                           | 100   | 99.5                   | No                    |
| 6/20/2024 | 1       | Quick            | 6.88                   | 6.86                         | 5000                  | 4976                           | 87.1  | 99.8                   | No                    |
| 6/21/2024 | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 4826                           | 101.2 | 100                    | No                    |
| 6/22/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 4752                           | 100.5 | 100                    | No                    |
| 6/23/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 4961                           | 99.2  | 100                    | No                    |
| 6/24/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 4892                           | 97.9  | 99.9                   | No                    |
| 6/25/2024 | 2       | Quick            | 6.88                   | 6.87                         | 4523                  | 5061                           | 100   | 100                    | No                    |
| 6/25/2024 | 1       | Quick            | 6.88                   | 6.83                         | 4523                  | 4889                           | 100.2 | 100                    | No                    |
| 6/26/2024 | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 5088                           | 100   | 74.3                   | No                    |
| 7/1/2024  | 1       | Quick            | 6.88                   | 6.80                         | 4523                  | 5029                           | 100   | 86.6                   | No                    |
| 7/2/2024  | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 4997                           | 100   | 72.7                   | No                    |
| 7/4/2024  | 2       | Quick            | 6.88                   | 6.95                         | 4523                  | 5052                           | 100   | 97                     | No                    |
| 7/7/2024  | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5027                           | 100   | 85                     | No                    |
| 7/9/2024  | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 5026                           | 100   | 100                    | No                    |
| 7/10/2024 | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 5007                           | 100   | 67.8                   | No                    |
| 7/11/2024 | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 5017                           | 100   | 62.7                   | No                    |
| 7/12/2024 | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5012                           | 100   | 98.3                   | Yes                   |
| 7/14/2024 | 2       | Quick            | 6.88                   | 6.80                         | 4523                  | 5012                           | 100   | 102.2                  | No                    |
| 7/15/2024 | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 4980                           | 100   | 99.6                   | No                    |
| 7/17/2024 | 2       | Quick            | 6.88                   | 6.80                         | 4523                  | 5012                           | 100   | 100                    | No                    |
| 7/18/2024 | 2       | Quick            | 6.88                   | 6.82                         | 4523                  | 4985                           | 100   | 90                     | No                    |
| 7/21/2024 | 2       | Quick            | 6.86                   | 6.83                         | 4523                  | 5236                           | 100   | 100.5                  | No                    |
| 7/22/2024 | 2       | Quick            | 6.85                   | 6.87                         | 4523                  | 5003                           | 100   | 102                    | No                    |
| 7/31/2024 | 2       | Quick            | 6.86                   | 6.86                         | 4523                  | 5001                           | 100   | 101.2                  | No                    |
| 8/6/2024  | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 5106                           | 100   | 84                     | No                    |
| 8/21/2024 | 2       | Quick            | 6.88                   | 6.79                         | 4523                  | 5070                           | 100   | 98.8                   | Yes                   |
| 8/27/2024 | 2       | Quick            | 6.88                   | 6.87                         | 4523                  | 5006                           | 100   | 100.8                  | No                    |
| 8/31/2024 | 2       | Quick            | 6.88                   | 6.89                         | 4523                  | 5002                           | 100   | 96                     | No                    |
| 9/3/2024  | 2       | Quick            | 6.88                   | 6.89                         | 4523                  | 4998                           | 100   | 101.1                  | No                    |
| 9/4/2024  | 2       | Quick            | 6.88                   | 6.88                         | 4523                  | 5010                           | 100   | 100.4                  | No                    |
| 9/7/2024  | 2       | Quick            | 6.88                   | 6.87                         | 4523                  | 5001                           | 100   | 100.1                  | No                    |
| 9/8/2024  | 2       | Quick            | 6.88                   | 6.86                         | 4523                  | 5003                           | 100   | 100                    | No                    |
| 9/10/2024 | 2       | Quick            | 6.88                   | 6.94                         | 4523                  | 5003                           | 100   | 103.5                  | No                    |
| 9/11/2024 | 2       | Quick            | 6.88                   | 6.89                         | 4523                  | 5006                           | 100   | 100.3                  | No                    |
| 9/14/2024 | 2       | Quick            | 6.88                   | 6.88                         | 4523                  | 4986                           | 100   | 99.2                   | No                    |
| 9/16/2024 | 2       | Quick            | 6.88                   | 6.87                         | 4523                  | 4980                           | 100   | 95                     | No                    |
| 9/17/2024 | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5038                           | 100   | 100.5                  | No                    |
| 9/18/2024 | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 4965                           | 100   | 100.2                  | No                    |
| 9/18/2024 | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 4962                           | 100   | 100.4                  | No                    |
| 9/21/2024 | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5014                           | 100   | 100.3                  | Yes                   |
| 9/22/2024 | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5000                           | 100   | 100                    | No                    |

| Date       | HANNA # | Calibration Type | pH of Standard (Quick) | pH After Calibration (Quick) | Conductivity Standard | Conductivity After Calibration | % DO | % DO After Calibration | Maintenance Performed |
|------------|---------|------------------|------------------------|------------------------------|-----------------------|--------------------------------|------|------------------------|-----------------------|
| 9/23/2024  | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5025                           | 100  | 98.8                   | No                    |
| 9/24/2024  | 2       | Quick            | 6.88                   | 6.72                         | 4523                  | 5126                           | 100  | 98.9                   | No                    |
| 9/25/2024  | 2       | Quick            | 6.88                   | 6.79                         | 4523                  | 4994                           | 100  | 99.8                   | No                    |
| 9/25/2024  | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 5004                           | 100  | 100.4                  | No                    |
| 9/26/2024  | 2       | Quick            | 6.88                   | 6.88                         | 4536                  | 4965                           | 100  | 98.7                   | No                    |
| 9/29/2024  | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 5026                           | 100  | 91.1                   | No                    |
| 10/1/2024  | 2       | Quick            | 6.88                   | 6.83                         | 4523                  | 4948                           | 100  | 98.5                   | No                    |
| 10/2/2024  | 2       | Quick            | 6.88                   | 6.85                         | 4523                  | 4993                           | 100  | 99.7                   | No                    |
| 10/3/2024  | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 4984                           | 100  | 100.2                  | No                    |
| 10/6/2024  | 2       | Quick            | 6.88                   | 6.84                         | 4523                  | 4991                           | 100  | 100.1                  | No                    |
| 10/8/2024  | 2       | Quick            | 6.88                   | 6.88                         | 4523                  | 5053                           | 100  | 99.7                   | No                    |
| 10/10/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 5017                           | 100  | 100                    | No                    |
| 10/10/2024 | 2       | Quick            | 6.88                   | 6.87                         | 4523                  | 4993                           | 100  | 100                    | No                    |
| 10/15/2024 | 2       | Quick            | 6.88                   | 6.88                         | 4893                  | 4978                           | 100  | 94.2                   | No                    |
| 10/16/2024 | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 4963                           | 100  | 99.4                   | No                    |
| 10/19/2024 | 1       | Quick            | 6.88                   | 6.71                         | 4523                  | 5052                           | 100  | 99.6                   | No                    |
| 10/20/2024 | 1       | Quick            | 6.88                   | 6.83                         | 4523                  | 4997                           | 100  | 99.9                   | No                    |
| 10/21/2024 | 1       | Quick            | 6.88                   | 6.84                         | 4523                  | 4999                           | 100  | 100.2                  | No                    |
| 10/23/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 5007                           | 100  | 100                    | No                    |
| 10/30/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 5006                           | 100  | 99.8                   | Yes                   |
| 11/6/2024  | 1       | Quick            | 6.88                   | 6.83                         | 4523                  | 5014                           | 100  | 100                    | No                    |
| 11/6/2024  | 1       | Quick            | 6.88                   | 6.83                         | 4523                  | 5014                           | 100  | 100                    | No                    |
| 11/11/2024 | WWTP2   | Quick            | 6.88                   | 6.86                         | 4451                  | 4253                           | 100  | 100                    | No                    |
| 11/13/2024 | 1       | Quick            | 6.88                   | 6.87                         | 4523                  | 4964                           | 100  | 98.7                   | No                    |
| 11/14/2024 | 1       | Quick            | 6.88                   | 6.86                         | 4523                  | 5008                           | 100  | 96.8                   | No                    |
| 11/18/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 5038                           | 100  | 99.3                   | No                    |
| 11/19/2024 | 1       | Quick            | 6.88                   | 6.87                         | 4523                  | 5037                           | 100  | 98.7                   | No                    |
| 11/20/2024 | 1       | Quick            | 6.88                   | 6.85                         | 4523                  | 5521                           | 100  | 103.9                  | No                    |
| 12/11/2024 | 1       | Quick            | 6.88                   | 6.87                         | 4523                  | 4982                           | 100  | 97.6                   | No                    |
| 12/18/2024 | 1       | Quick            | 6.88                   | 6.86                         | 4523                  | 4987                           | 100  | 100.3                  | No                    |

## 2024 Annual Surface Water Report Appendix F

### Manufacturer Calibration Records

2024 Annual Surface Water Report  
Appendix F

Manufacturer Calibration Records  
HANNA #1

# Instrument Quality Certificate

Instrument:

HI98194

SN:

07380042101

Software version:

1.08

Description: Multiparameter Waterproof Meter

*Hanna Instruments certifies that this instrument has been produced, calibrated and tested to meet all applicable Hanna Instruments procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001.*

*The following tests have been performed according with the reference from the QC Procedure of the meter.*

The results are listed below:

| A. Functionality tests                     | Reference | Result |
|--------------------------------------------|-----------|--------|
| A.1. Switch On/Off test                    | 5.        | Passed |
| A.2. LCD test                              | 5.1.      | Passed |
| A.3. Sound test                            | 5.2.      | Passed |
| A.4. Keyboard test                         | 5.3.      | Passed |
| A.5. Real time clock test                  | 5.4.      | Passed |
| A.6. Eeprom test                           | 5.5.      | Passed |
| A.7. Measurement test (pH, ORP, EC, DO, T) | 5.6.      | Passed |
| A.8. USB Port test                         | 5.7.      | Passed |
| A.9. Power consumption test                | 5.8.      | Passed |
| A.10. Factory calibration test             | 6.        | Passed |
| B. Aesthetic Control                       | Reference | Result |
| B.1. Visual Inspection                     | 4.        | Passed |
| B.2. Labeling and Marking                  | 4.        | Passed |

Calibration, functionality test, aesthetic control and packing have been met.

Date: 2022-09-21

QC Inspector: Coman Tudor / Engineer

[Name / Title of Signatory]

Signature: \_\_\_\_\_



## Instrument Quality Certificate

Instrument:  
HI98194

SN:  
08250078101

Software version:  
1.08

Description: Multiparameter Waterproof Meter

Hanna Instruments certifies that this instrument has been produced, calibrated and tested to meet all applicable Hanna Instruments procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001.

The following tests have been performed according with the reference from the QC Procedure of the meter.

The results are listed below:

| A. Functionality tests                     | Reference | Result |
|--------------------------------------------|-----------|--------|
| A.1. Switch On/Off test                    | 5.        | Passed |
| A.2. LCD test                              | 5.1.      | Passed |
| A.3. Sound test                            | 5.2.      | Passed |
| A.4. Keyboard test                         | 5.3.      | Passed |
| A.5. Real time clock test                  | 5.4.      | Passed |
| A.6. Eeprom test                           | 5.5.      | Passed |
| A.7. Measurement test (pH, ORP, EC, DO, T) | 5.6.      | Passed |
| A.8. USB Port test                         | 5.7.      | Passed |
| A.9. Power consumption test                | 5.8.      | Passed |
| A.10. Factory calibration test             | 6.        | Passed |
| B. Aesthetic Control                       | Reference | Result |
| B.1. Visual Inspection                     | 4.        | Passed |
| B.2. Labeling and Marking                  | 4.        | Passed |

Calibration, functionality test, aesthetic control and packing have been met.

Date: 2023.08.28

QC Inspector: Coman Tudor / Engineer

[Name / Title of Signatory]

Signature: \_\_\_\_\_



2024 Annual Surface Water Report  
Appendix F

Manufacturer Calibration Records  
HANNA #2

## Instrument Quality Certificate

Instrument:  
HI98194

SN:  
07380037101

Software version:  
1.08

Description: Multiparameter Waterproof Meter

Hanna Instruments certifies that this instrument has been produced, calibrated and tested to meet all applicable Hanna Instruments procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001.

The following tests have been performed according with the reference from the QC Procedure of the meter.

The results are listed below:

| A. Functionality tests                     | Reference | Result |
|--------------------------------------------|-----------|--------|
| A.1. Switch On/Off test                    | 5.        | Passed |
| A.2. LCD test                              | 5.1.      | Passed |
| A.3. Sound test                            | 5.2.      | Passed |
| A.4. Keyboard test                         | 5.3.      | Passed |
| A.5. Real time clock test                  | 5.4.      | Passed |
| A.6. Eeprom test                           | 5.5.      | Passed |
| A.7. Measurement test (pH, ORP, EC, DO, T) | 5.6.      | Passed |
| A.8. USB Port test                         | 5.7.      | Passed |
| A.9. Power consumption test                | 5.8.      | Passed |
| A.10. Factory calibration test             | 6.        | Passed |
| B. Aesthetic Control                       | Reference | Result |
| B.1. Visual Inspection                     | 4.        | Passed |
| B.2. Labeling and Marking                  | 4.        | Passed |

Calibration, functionality test, aesthetic control and packing have been met.

Date: 2022.09.19

QC Inspector: Tudor Coman / Engineer

(Name / Title of Signatory)

Signature: \_\_\_\_\_

IQC\_HI98194\_rev.0.1\_April 2019





Hanna HI98194 vs Check Standard

Unit SN: 07380037101 Inspection: 7048B

Customer ID: HANNA 2

Date: March 3, 2025

| Standard            |                     | Standard Value | Meter Reading |
|---------------------|---------------------|----------------|---------------|
| Temp                | Accuracy +/- 0.15°  | 29.93°         | 29.86°        |
| pH 7                | Accuracy +/- 0.01pH | 7.00           | 7.00          |
| pH 4                | Accuracy +/- 0.01pH | 4.00           | 4.00          |
| pH 10               | Accuracy +/- 0.01pH | 10.01          | 10.01         |
| DO % saturated      | +/- 1.5%            | 100%           | 99.9%         |
| DO% low oxygen      | +/- 1.5%            | 0%             | 0%            |
| Conductivity +/-5   | +/- 1%              | 1413uS         | 1414uS        |
| Conductivity in Air |                     | 0              | 0             |

Customer: New Gold Inc.

Technician: Craig Walking

- All standards are changed on regular intervals but lab shared, cross contamination is possible. Always calibrate your equipment as close to use as possible to avoid poor data collection due to sensor drift. Frequency of calibration is determined by in house QA procedures.

2024 Annual Surface Water Report  
Appendix F

Manufacturer Calibration Records  
WWTP #2

## Instrument Quality Certificate

Instrument:  
HI98194

SN:  
07380042101

Software version:  
1.08

Description: Multiparameter Waterproof Meter

Hanna Instruments certifies that this instrument has been produced, calibrated and tested to meet all applicable Hanna Instruments procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001. The following tests have been performed according with the reference from the QC Procedure of the meter.

The results are listed below:

| A. Functionality tests                     | Reference | Result |
|--------------------------------------------|-----------|--------|
| A.1. Switch On/Off test                    | 5.        | Passed |
| A.2. LCD test                              | 5.1.      | Passed |
| A.3. Sound test                            | 5.2.      | Passed |
| A.4. Keyboard test                         | 5.3.      | Passed |
| A.5. Real time clock test                  | 5.4.      | Passed |
| A.6. Eeprom test                           | 5.5.      | Passed |
| A.7. Measurement test (pH, ORP, EC, DO, T) | 5.6.      | Passed |
| A.8. USB Port test                         | 5.7.      | Passed |
| A.9. Power consumption test                | 5.8.      | Passed |
| A.10. Factory calibration test             | 6.        | Passed |
| B. Aesthetic Control                       | Reference | Result |
| B.1. Visual Inspection                     | 4.        | Passed |
| B.2. Labeling and Marking                  | 4.        | Passed |

Calibration, functionality test, aesthetic control and packing have been met.

Date: 2022.09.21

QC Inspector: Tudor Coman / Engineer  
(Name / Title of Signatory)

Signature: 

IQC\_HI98194\_rev.0.1\_April 2019

## 2024 Annual Surface Water Report Appendix G

### Water Quality QA/QC Tables

2024 Annual Surface Water Report  
Appendix G

Water Quality QA/QC Tables  
Field Blanks

**SURFACE WATER QAQC FIELD BLANKS**

| Parameters                    | Fraction | Units | 1/2/2024 | 2/6/2024 | 3/5/2024 | 4/3/2024 | 5/7/2024 | 6/4/2024   | 7/9/2024 | 8/7/2024 | 9/4/2024 | 10/2/2024 | 11/5/2024 | 12/3/2024 |
|-------------------------------|----------|-------|----------|----------|----------|----------|----------|------------|----------|----------|----------|-----------|-----------|-----------|
| Acidity as CaCO3              | N        | mg/L  | < 2      | 2.9      | 2.5      | 2.3      | 2.3      | 2.2        | < 2      | < 2      | < 2      | 2.1       | 2.3       | 3.4       |
| Alkalinity, Total as CaCO3    | N        | mg/L  | < 2      | < 2      | < 2      | < 2      | < 2      | < 2        | < 2      | < 2      | < 2      | < 2       | < 2       | < 2       |
| Ammonia, Total as N           | N        | g/L   | < 0.005  | < 0.005  | < 0.005  | < 0.005  | < 0.005  | < 0.005    | < 0.005  | < 0.005  | < 0.005  | < 0.005   | < 0.005   | < 0.005   |
| Biochemical Oxygen Demand     | N        | mg/L  | < 2      | < 2      | 2.7      | < 2      | < 2      | < 2        | < 2      | < 2      | < 2      | < 2       | < 2       | < 2       |
| Chemical Oxygen Demand        | N        | mg/L  | < 10     | < 10     | < 10     | < 10     | < 10     | < 10       | < 10     | < 10     | < 10     | < 10      | < 10      | < 10      |
| Chloride                      | N        | mg/L  | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1      | < 0.1    | < 0.1    | < 0.1    | < 0.1     | < 0.1     | < 0.1     |
| Color True                    | N        | TCU   | < 2      | < 2      | < 2      | < 2      | < 2      | < 2        | < 2      | < 2      | < 2      | < 2       | < 2       | < 2       |
| Conductivity                  | N        | uS/cm | 1.4      | 1.5      | 1.2      | 1.4      | 2.3      | 3.1        | 1.3      | 2.4      | 2.8      | 1.5       | < 1       | 1.2       |
| Cyanide Free                  | N        | mg/L  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002    | < 0.002  | < 0.002  | < 0.002  | < 0.002   | < 0.002   | < 0.002   |
| Cyanide, Total                | N        | mg/L  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002    | < 0.002  | < 0.002  | < 0.002  | < 0.002   | < 0.002   | < 0.002   |
| Cyanide Weak Acid Diss        | N        | mg/L  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002    | < 0.002  | < 0.002  | < 0.002  | < 0.002   | < 0.002   | < 0.002   |
| Dissolved Organic Carbon      | D        | mg/L  | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5      | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Fluoride as F                 | N        | mg/L  | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02     | < 0.02   | < 0.02   | < 0.02   | < 0.02    | < 0.02    | < 0.02    |
| Hardness as CaCO3             | N        | mg/L  | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5      | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Nitrate as N                  | N        | mg/L  | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02     | < 0.02   | < 0.02   | < 0.02   | < 0.02    | < 0.02    | < 0.02    |
| Nitrite as N                  | N        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01     | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Oil and Grease Total          | N        | mg/L  | < 1      | < 1      | < 1      | 1.7      | < 1      | < 1        | < 1      | < 1      | < 1      | < 1       | < 1       | < 1       |
| Orthophosphate-Dissolved as P | N        | mg/L  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001    | < 0.001  | < 0.001  | < 0.001  | < 0.001   | < 0.001   | < 0.001   |
| pH                            | N        |       | 6.12     | 6.01     | 5.95     | 5.85     | 6.15     | 6.41       | 5.98     | 6.33     | 6.14     | 5.88      | 5.82      | 5.84      |
| Sulfate as SO4                | N        | mg/L  | < 0.3    | < 0.3    | < 0.3    | < 0.3    | < 0.3    | < 0.3      | < 0.3    | < 0.3    | < 0.3    | < 0.3     | < 0.3     | < 0.3     |
| Total Dissolved Solids        | T        | mg/L  | < 10     | < 10     | < 10     | < 10     | < 10     | < 10       | < 10     | < 10     | < 10     | < 10      | < 10      | < 10      |
| Total Kjeldahl Nitrogen       | N        | mg/L  | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05     | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Total Organic Carbon          | T        | mg/L  | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5      | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Total Suspended Solids        | N        | mg/L  | < 3      | < 3      | < 3      | < 3      | < 3      | < 3        | < 3      | < 3      | < 3      | < 3       | < 3       | < 3       |
| Turbidity                     | N        | NTU   | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1      | < 0.1    | < 0.1    | < 0.1    | < 0.1     | < 0.1     | < 0.1     |
| Aluminum                      | D        | mg/L  | 0.0012   | < 0.001  | < 0.001  | < 0.001  | 0.005    | < 0.001    | 0.0039   | < 0.001  | < 0.001  | < 0.001   | < 0.001   | < 0.001   |
| Aluminum                      | T        | mg/L  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | 0.0084   | < 0.003    | 0.004    | < 0.003  | < 0.003  | < 0.003   | < 0.003   | < 0.003   |
| Antimony                      | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001   | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Antimony                      | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001   | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Arsenic                       | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001   | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Arsenic                       | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001   | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Barium                        | D        | mg/L  | 0.00052  | 0.00026  | < 0.0001 | 0.0002   | 0.00072  | 0.00054    | 0.00028  | 0.00085  | 0.00073  | 0.00033   | 0.00035   | 0.0004    |
| Barium                        | T        | mg/L  | 0.00055  | 0.00026  | 0.00011  | 0.00023  | 0.00065  | 0.00048    | 0.00031  | 0.00065  | 0.00068  | 0.00032   | 0.00036   | 0.0004    |
| Beryllium                     | D        | mg/L  | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005   | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005  | < 2e-005  | < 2e-005  |
| Beryllium                     | T        | mg/L  | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005   | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005  | < 2e-005  | < 2e-005  |
| Bismuth                       | D        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005   | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Bismuth                       | T        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005   | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Boron                         | D        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01     | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Boron                         | T        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01     | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Cadmium                       | D        | mg/L  | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 0.000251 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006  | < 5e-006  |
| Cadmium                       | T        | mg/L  | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006   | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006  | < 5e-006  |
| Calcium                       | D        | mg/L  | 0.085    | < 0.05   | < 0.05   | < 0.05   | 0.097    | 0.084      | 0.051    | 0.07     | 0.065    | < 0.05    | < 0.05    | < 0.05    |
| Calcium                       | T        | mg/L  | 0.091    | < 0.05   | < 0.05   | < 0.05   | 0.104    | 0.115      | 0.067    | 0.063    | 0.06     | < 0.05    | < 0.05    | < 0.05    |
| Cesium                        | D        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005   | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Cesium                        | T        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005   | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |

SURFACE WATER QAQC FIELD BLANKS

| Parameters | Fraction | Units | 1/2/2024 | 2/6/2024 | 3/5/2024 | 4/3/2024 | 5/7/2024 | 6/4/2024 | 7/9/2024 | 8/7/2024 | 9/4/2024 | 10/2/2024 | 11/5/2024 | 12/3/2024 |
|------------|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| Chromium   | D        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Chromium   | T        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Cobalt     | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Cobalt     | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Copper     | D        | mg/L  | 0.00084  | 0.00092  | < 0.0002 | < 0.0002 | 0.00041  | 0.00127  | < 0.0002 | 0.00183  | 0.00203  | 0.00126   | 0.00092   | 0.00038   |
| Copper     | T        | mg/L  | 0.00242  | 0.00101  | < 0.0005 | < 0.0005 | < 0.0005 | 0.00148  | < 0.0005 | 0.00177  | 0.00184  | 0.00126   | 0.00099   | < 0.0005  |
| Iron       | D        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Iron       | T        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Lead       | D        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Lead       | T        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Lithium    | D        | mg/L  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001   | < 0.001   | < 0.001   |
| Lithium    | T        | mg/L  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001   | < 0.001   | < 0.001   |
| Magnesium  | D        | mg/L  | 0.0141   | 0.0096   | 0.0062   | 0.0077   | 0.017    | 0.0063   | 0.0188   | 0.0111   | 0.0117   | < 0.005   | < 0.005   | < 0.005   |
| Magnesium  | T        | mg/L  | 0.0152   | 0.0095   | 0.0066   | 0.0069   | 0.0086   | 0.0068   | 0.0232   | 0.0102   | 0.0103   | < 0.005   | < 0.005   | < 0.005   |
| Manganese  | D        | mg/L  | 0.00014  | 0.00014  | < 0.0001 | < 0.0001 | 0.00012  | 0.0001   | 0.00012  | 0.00016  | 0.00017  | < 0.0001  | < 0.0001  | < 0.0001  |
| Manganese  | T        | mg/L  | 0.00014  | 0.00022  | 0.0001   | 0.0001   | 0.00015  | 0.00015  | 0.00018  | 0.00021  | 0.00016  | < 0.0001  | < 0.0001  | < 0.0001  |
| Mercury    | D        | mg/L  | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006  | < 5e-006  |
| Mercury    | T        | mg/L  | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006  | < 5e-006  |
| Molybdenum | D        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Molybdenum | T        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Nickel     | D        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Nickel     | T        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Phosphorus | D        | mg/L  | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Phosphorus | T        | mg/L  | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Potassium  | D        | mg/L  | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Potassium  | T        | mg/L  | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Rubidium   | D        | mg/L  | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002  | < 0.0002  | < 0.0002  |
| Rubidium   | T        | mg/L  | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002  | < 0.0002  | < 0.0002  |
| Selenium   | D        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Selenium   | T        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Silicon    | D        | mg/L  | 0.227    | < 0.05   | < 0.05   | 0.083    | 0.268    | 0.118    | 0.171    | 0.268    | 0.315    | 0.061     | 0.057     | 0.124     |
| Silicon    | T        | mg/L  | 0.27     | < 0.1    | < 0.1    | 0.11     | 0.32     | 0.14     | 0.18     | 0.29     | 0.3      | < 0.1     | < 0.1     | 0.15      |
| Silver     | D        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Silver     | T        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Sodium     | D        | mg/L  | 0.38     | 0.273    | 0.178    | 0.175    | 0.382    | 0.502    | 0.191    | 0.564    | 0.595    | 0.194     | 0.134     | 0.204     |
| Sodium     | T        | mg/L  | 0.389    | 0.266    | 0.203    | 0.173    | 0.426    | 0.48     | 0.198    | 0.553    | 0.554    | 0.196     | 0.125     | 0.203     |
| Strontium  | D        | mg/L  | 0.00037  | < 0.0002 | < 0.0002 | < 0.0002 | 0.00042  | 0.00035  | 0.0002   | 0.00037  | 0.00036  | < 0.0002  | < 0.0002  | < 0.0002  |
| Strontium  | T        | mg/L  | 0.00037  | < 0.0002 | < 0.0002 | < 0.0002 | 0.0005   | 0.00034  | 0.00022  | 0.00031  | 0.00035  | < 0.0002  | < 0.0002  | < 0.0002  |
| Sulfur     | D        | mg/L  | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Sulfur     | T        | mg/L  | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Tellurium  | D        | mg/L  | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002  | < 0.0002  | < 0.0002  |
| Tellurium  | T        | mg/L  | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002  | < 0.0002  | < 0.0002  |
| Thallium   | D        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Thallium   | T        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Thorium    | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |

| SURFACE WATER QAQC FIELD BLANKS |          |       |          |          |          |          |          |          |          |          |          |           |           |           |
|---------------------------------|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| Parameters                      | Fraction | Units | 1/2/2024 | 2/6/2024 | 3/5/2024 | 4/3/2024 | 5/7/2024 | 6/4/2024 | 7/9/2024 | 8/7/2024 | 9/4/2024 | 10/2/2024 | 11/5/2024 | 12/3/2024 |
| Thorium                         | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Tin                             | D        | mg/L  | < 0.0001 | < 0.0001 | 0.00026  | 0.0003   | < 0.0001 | < 0.0001 | 0.00212  | 0.00028  | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Tin                             | T        | mg/L  | < 0.0001 | < 0.0001 | 0.00027  | 0.00032  | < 0.0001 | < 0.0001 | 0.0012   | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Titanium                        | D        | mg/L  | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003  | < 0.0003  |
| Titanium                        | T        | mg/L  | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003  | < 0.0003  |
| Tungsten                        | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Tungsten                        | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Uranium                         | D        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Uranium                         | T        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Vanadium                        | D        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Vanadium                        | T        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Zinc                            | D        | mg/L  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001   | < 0.001   | < 0.001   |
| Zinc                            | T        | mg/L  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003   | < 0.003   | < 0.003   |
| Zirconium                       | D        | mg/L  | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003  | < 0.0003  |
| Zirconium                       | T        | mg/L  | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002  | < 0.0002  | < 0.0002  |



2024 Annual Surface Water Report  
Appendix G

Water Quality QA/QC Tables  
Travel Blanks

| SURFACE WATER QAQC TRAVEL BLANKS |          |       |          |          |          |          |          |          |           |          |          |           |           |           |
|----------------------------------|----------|-------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|-----------|-----------|
| Parameters                       | Fraction | Units | 1/4/2024 | 2/6/2024 | 3/6/2024 | 4/3/2024 | 5/7/2024 | 6/4/2024 | 7/10/2024 | 8/7/2024 | 9/4/2024 | 10/1/2024 | 11/5/2024 | 12/3/2024 |
| Acidity as CaCO3                 | N        | mg/L  | 2.3      | 2.9      | < 2      | 2.5      | 2.6      | 2.1      | < 2       | < 2      | < 2      | < 2       | 2.5       | 2.6       |
| Alkalinity, Total as CaCO3       | N        | mg/L  | < 2      | < 2      | < 2      | < 2      | < 2      | < 2      | < 2       | < 2      | < 2      | < 2       | < 2       | < 2       |
| Ammonia, Total as N              | N        | g/L   | < 0.005  | < 0.005  | 0.01     | < 0.005  | < 0.005  | < 0.005  | < 0.005   | < 0.005  | 0.0051   | < 0.005   | 0.102     | < 0.005   |
| Biochemical Oxygen Demand        | N        | mg/L  | < 2      | < 2      | < 2      | 3.1      | < 2      | < 2      | < 2       | < 2      | < 2      | < 2       | < 2       | < 2       |
| Chemical Oxygen Demand           | N        | mg/L  | < 10     | < 10     | < 10     | < 10     | < 10     | < 10     | < 10      | < 10     | < 10     | < 10      | < 10      | < 10      |
| Chloride                         | N        | mg/L  | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1     | < 0.1    | < 0.1    | < 0.1     | < 0.1     | < 0.1     |
| Color True                       | N        | TCU   | < 2      | < 2      | < 2      | < 2      | < 2      | < 2      | < 2       | < 2      | < 2      | < 2       | < 2       | < 2       |
| Conductivity                     | N        | uS/cm | < 1      | 1.1      | < 1      | 1.1      | < 1      | < 1      | < 1       | < 1      | < 1      | 1         | < 1       | 1.2       |
| Cyanide Free                     | N        | mg/L  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002   | < 0.002  | < 0.002  | < 0.002   | < 0.002   | < 0.002   |
| Cyanide, Total                   | N        | mg/L  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002   | < 0.002  | < 0.002  | < 0.002   | < 0.002   | < 0.002   |
| Cyanide Weak Acid Diss           | N        | mg/L  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002  | < 0.002   | < 0.002  | < 0.002  | < 0.002   | < 0.002   | < 0.002   |
| Dissolved Organic Carbon         | D        | mg/L  | < 0.5    | < 0.5    | < 0.5    | 1.08     | < 0.5    | < 0.5    | < 0.5     | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Fluoride as F                    | N        | mg/L  | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02    | < 0.02   | < 0.02   | < 0.02    | < 0.02    | < 0.02    |
| Hardness as CaCO3                | N        | mg/L  | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Nitrate as N                     | N        | mg/L  | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02   | < 0.02    | < 0.02   | < 0.02   | < 0.02    | < 0.02    | < 0.02    |
| Nitrite as N                     | N        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Oil and Grease Total             | N        | mg/L  | < 1      | 2        | 1.7      | 1.5      | < 1      | < 1      | < 1       | < 1      | < 1      | < 1       | < 1       | < 1       |
| Orthophosphate-Dissolved as P    | N        | mg/L  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001   | < 0.001  | < 0.001  | < 0.001   | 0.0014    | < 0.001   |
| pH                               | N        |       | 5.42     | 5.43     | 5.45     | 5.26     | 5.31     | 5.56     | 5.47      | 5.48     | 5.36     | 5.37      | 5.68      | 5.63      |
| Sulfate as SO4                   | N        | mg/L  | < 0.3    | < 0.3    | < 0.3    | < 0.3    | < 0.3    | < 0.3    | < 0.3     | < 0.3    | < 0.3    | < 0.3     | < 0.3     | < 0.3     |
| Total Dissolved Solids           | T        | mg/L  | < 10     | < 10     | < 10     | < 10     | < 10     | < 10     | < 10      | < 10     | < 10     | < 10      | < 10      | < 10      |
| Total Kjeldahl Nitrogen          | N        | mg/L  | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05   | < 0.05    | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Total Organic Carbon             | T        | mg/L  | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5    | < 0.5     | < 0.5    | < 0.5    | < 0.5     | < 0.5     | < 0.5     |
| Total Suspended Solids           | N        | mg/L  | < 3      | < 3      | < 3      | < 3      | < 3      | < 3      | < 3       | < 3      | < 3      | < 3       | < 3       | < 3       |
| Turbidity                        | N        | NTU   | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1    | < 0.1     | < 0.1    | < 0.1    | < 0.1     | < 0.1     | < 0.1     |
| Aluminum                         | D        | mg/L  | < 0.001  | < 0.001  | < 0.001  | 0.0091   | < 0.001  | 0.0092   | < 0.001   | < 0.001  | < 0.001  | < 0.001   | < 0.001   | < 0.001   |
| Aluminum                         | T        | mg/L  | < 0.003  | < 0.003  | < 0.003  | 0.0088   | < 0.003  | 0.0121   | < 0.003   | < 0.003  | < 0.003  | < 0.003   | < 0.003   | < 0.003   |
| Antimony                         | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Antimony                         | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Arsenic                          | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Arsenic                          | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Barium                           | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | 0.00063  | 0.00034  | 0.00065  | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Barium                           | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | 0.00059  | 0.00038  | 0.00086  | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Beryllium                        | D        | mg/L  | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005  | < 2e-005 | < 2e-005 | < 2e-005  | < 2e-005  | < 2e-005  |
| Beryllium                        | T        | mg/L  | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005 | < 2e-005  | < 2e-005 | < 2e-005 | < 2e-005  | < 2e-005  | < 2e-005  |
| Bismuth                          | D        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Bismuth                          | T        | mg/L  | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005 | < 5e-005 | < 5e-005  | < 5e-005  | < 5e-005  |
| Boron                            | D        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Boron                            | T        | mg/L  | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01   | < 0.01    | < 0.01   | < 0.01   | < 0.01    | < 0.01    | < 0.01    |
| Cadmium                          | D        | mg/L  | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006  | < 5e-006  |
| Cadmium                          | T        | mg/L  | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006 | < 5e-006 | < 5e-006  | < 5e-006  | < 5e-006  |
| Calcium                          | D        | mg/L  | < 0.05   | < 0.05   | < 0.05   | 0.114    | 0.061    | 0.097    | < 0.05    | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Calcium                          | T        | mg/L  | < 0.05   | < 0.05   | < 0.05   | 0.089    | 0.064    | 0.132    | < 0.05    | < 0.05   | < 0.05   | < 0.05    | < 0.05    | < 0.05    |
| Cesium                           | D        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Cesium                           | T        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |

[illegible]

| SURFACE WATER QAQC TRAVEL BLANKS |          |       |          |          |          |          |          |          |           |          |          |           |           |           |
|----------------------------------|----------|-------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|-----------|-----------|
| Parameters                       | Fraction | Units | 1/4/2024 | 2/6/2024 | 3/6/2024 | 4/3/2024 | 5/7/2024 | 6/4/2024 | 7/10/2024 | 8/7/2024 | 9/4/2024 | 10/1/2024 | 11/5/2024 | 12/3/2024 |
| Thorium                          | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Tin                              | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Tin                              | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Titanium                         | D        | mg/L  | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003  | < 0.0003  |
| Titanium                         | T        | mg/L  | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003  | < 0.0003  |
| Tungsten                         | D        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Tungsten                         | T        | mg/L  | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001 | < 0.0001 | < 0.0001  | < 0.0001  | < 0.0001  |
| Uranium                          | D        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Uranium                          | T        | mg/L  | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005 | < 1e-005 | < 1e-005  | < 1e-005  | < 1e-005  |
| Vanadium                         | D        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Vanadium                         | T        | mg/L  | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005 | < 0.0005 | < 0.0005  | < 0.0005  | < 0.0005  |
| Zinc                             | D        | mg/L  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001  | < 0.001   | < 0.001  | < 0.001  | < 0.001   | < 0.001   | < 0.001   |
| Zinc                             | T        | mg/L  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003  | < 0.003   | < 0.003  | < 0.003  | < 0.003   | < 0.003   | < 0.003   |
| Zirconium                        | D        | mg/L  | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003 | < 0.0003 | < 0.0003  | < 0.0003  | < 0.0003  |
| Zirconium                        | T        | mg/L  | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002  | < 0.0002 | < 0.0002 | < 0.0002  | < 0.0002  | < 0.0002  |

2024 Annual Surface Water Report  
Appendix G

Water Quality QA/QC Tables  
Duplicates

|  |               |                   |                  |          |
|--|---------------|-------------------|------------------|----------|
|  | Location:     | SW22A             | SW22A            | SW22A    |
|  | Sample ID:    | SW22A_SW_20240102 | SW06_SW_20240102 |          |
|  | Date Sampled: | 1/4/2024          | 1/4/2024         | 1/4/2024 |
|  | Sample Type:  | Primary           | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units    |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|----------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L     | 4.9        | 4.9       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L     | 185        | 178       | - | 3.86%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L     | 0.0158     | 0.0172    | - | 8.48%                 | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L     | 0.195      | 0.199     | - | 2.03%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L     | 0.0323     | 0.0307    | - | 5.08%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L     | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L     | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L     | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L     | 0.00073    | 0.00074   | - | 1.36%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L     | 0.00081    | 0.00081   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L     | 0.0193     | 0.0201    | - | 4.06%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L     | 0.0207     | 0.0211    | - | 1.91%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L     | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L     | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L     | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L     | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L     | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L     | 0.015      | 0.015     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L     | 0.017      | 0.016     | - | 6.06%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L     | 0.0000052  | <2.5e-006 | - | 70.13%                | -                      | -                       | Pass-1    |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L     | 0.0000053  | 8.4e-006  | - | 45.26%                | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L     | 43.6       | 43.9      | - | 0.69%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L     | 43.0       | 44.6      | - | 3.65%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L     | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L     | 0.000021   | 2e-005    | - | 4.88%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L     | 168        | 73        | - | 78.84%                | -                      | -                       | Fail      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L     | 21.8       | 21.6      | - | 0.92%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L     | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L     | 0.00062    | 0.00055   | - | 11.97%                | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L     | 0.00017    | 0.00016   | - | 6.06%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L     | 0.00034    | 0.00036   | - | 5.71%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU       | 82.6       | 83.4      | - | 0.96%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm    | 377        | 380       | - | 0.79%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L     | 0.00105    | 0.00103   | - | 1.92%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L     | 0.00124    | 0.00119   | - | 4.12%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L     | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L     | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L     | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L     | 24.7       | 25.4      | - | 2.79%                 | -                      | -                       | Pass      |           |           |
| Field Dissolved Oxygen      | 0.01                 | 0.01                 | -                    | mg/L     | 5.22       | 5.22      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Field pH                    | 0.1                  | 0.1                  | -                    | pH Units | 7.57       | 7.57      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Field Temp                  | 0.1                  | 0.1                  | -                    | C        | -0.11      | -0.11     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L     | 0.036      | 0.038     | - | 5.41%                 | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L     | 183        | 183       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L     | 0.373      | 0.386     | - | 3.43%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L     | 0.687      | 0.707     | - | 2.87%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L     | 0.000054   | 5.5e-005  | - | 1.83%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L     | 0.000150   | 0.000146  | - | 2.70%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L     | 0.0076     | 0.0079    | - | 3.87%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L     | 0.0078     | 0.0079    | - | 1.27%                 | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L     | 18.0       | 17.8      | - | 1.12%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L     | 17.1       | 17.1      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L     | 0.0346     | 0.0349    | - | 0.86%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L     | 0.125      | 0.124     | - | 0.80%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L     | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L     | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L     | 0.000718   | 0.000741  | - | 3.15%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L     | 0.000753   | 0.000744  | - | 1.20%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L     | 0.00138    | 0.00135   | - | 2.20%                 | -                      | -                       | Pass      |           |           |

|                               |         |         |   |          |            |          |   |        |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|--------|---|---|--------|--|--|
| Nickel, T                     | 0.0005  | 0.0005  | - | mg/L     | 0.00152    | 0.00161  | - | 5.75%  | - | - | Pass   |  |  |
| Nitrate as N                  | 0.02    | 0.02    | - | mg/L     | 0.038      | 0.041    | - | 7.59%  | - | - | Pass   |  |  |
| Nitrite as N                  | 0.01    | 0.01    | - | mg/L     | <0.0050    | <0.005   | - | 0.00%  | - | - | Pass   |  |  |
| Oil and Grease Total          | 1       | 1       | - | mg/L     | 1.0        | 1.6      | - | 46.15% | - | - | Pass-1 |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | 0.0270     | 0.0267   | - | 1.12%  | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.85       | 7.84     | - | 0.13%  | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | 0.058    | - | 79.52% | - | - | Pass-1 |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 4.01       | 4        | - | 0.25%  | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 3.93       | 3.81     | - | 3.10%  | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00250    | 0.00242  | - | 3.25%  | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00283    | 0.00279  | - | 1.42%  | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000161   | 0.000156 | - | 3.15%  | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000183   | 0.00016  | - | 13.41% | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 6.03       | 6.15     | - | 1.97%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 6.33       | 6.34     | - | 0.16%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 9.29       | 9.37     | - | 0.86%  | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 9.02       | 8.97     | - | 0.56%  | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.105      | 0.103    | - | 1.92%  | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.101      | 0.104    | - | 2.93%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 10.4       | 10.3     | - | 0.97%  | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | 3.99       | 4.03     | - | 1.00%  | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 3.95       | 3.97     | - | 0.51%  | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00156    | 0.00172  | - | 9.76%  | - | - | Pass   |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.00615    | 0.00704  | - | 13.50% | - | - | Pass   |  |  |
| Total Dissolved Solids, T     | 20      | 20      | - | mg/L     | 253        | 244      | - | 3.62%  | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.03       | 0.983    | - | 4.67%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 25.5       | 26.1     | - | 2.33%  | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | 4.7        | 3.1      | - | 41.03% | - | - | Pass-1 |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 6.17       | 6.08     | - | 1.47%  | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000888   | 0.000867 | - | 2.39%  | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000869   | 0.000864 | - | 0.58%  | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%  | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00100    | 0.00098  | - | 2.02%  | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0015     | 0.0015   | - | 0.00%  | - | - | Pass   |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | 0.0030     | 0.0034   | - | 12.50% | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00037    | 0.00036  | - | 2.74%  | - | - | Pass   |  |  |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>RPD Control Limits</b>                                                                                    |
| Pass - RPD ≤ 20%                                                                                             |
| Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit                                              |
| Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit |
| <b>Exceeds RPD Control Limits</b>                                                                            |



|  |               |                  |                  |          |
|--|---------------|------------------|------------------|----------|
|  | Location:     | SW16             | SW16             | SW16     |
|  | Sample ID:    | SW16_SW_20240201 | SW06_SW_20240201 |          |
|  | Date Sampled: | 2/6/2024         | 2/6/2024         | 2/6/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units    |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|----------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L     | 3.2        | 3.6       | - | 11.76%                | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L     | 27.3       | 27.6      | - | 1.09%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L     | 0.0189     | 0.0192    | - | 1.57%                 | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L     | 0.0666     | 0.0704    | - | 5.55%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L     | <0.0025    | <0.0025   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L     | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L     | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L     | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L     | 0.00038    | 0.00034   | - | 11.11%                | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L     | 0.00039    | 0.00036   | - | 8.00%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L     | 0.00800    | 0.008     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L     | 0.00867    | 0.00848   | - | 2.22%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L     | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L     | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L     | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L     | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L     | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L     | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L     | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L     | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L     | 0.0000051  | <2.5e-006 | - | 68.42%                | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L     | 7.19       | 7.24      | - | 0.69%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L     | 7.45       | 7.44      | - | 0.13%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L     | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L     | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L     | 23         | 27        | - | 16.00%                | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L     | 2.85       | 3.15      | - | 10.00%                | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L     | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L     | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L     | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L     | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU       | 29.0       | 29.4      | - | 1.37%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm    | 75.9       | 75.2      | - | 0.93%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L     | 0.00101    | 0.00089   | - | 12.63%                | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L     | 0.00115    | 0.00105   | - | 9.09%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L     | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L     | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L     | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L     | 9.69       | 9.77      | - | 0.82%                 | -                      | -                       | Pass      |           |           |
| Field Dissolved Oxygen      | 0.01                 | 0.01                 | -                    | mg/L     | 6.61       | 6.61      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Field pH                    | 0.1                  | 0.1                  | -                    | pH Units | 6.89       | 6.89      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Field Temp                  | 0.1                  | 0.1                  | -                    | C        | 3.46       | 3.66      | - | 5.62%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L     | 0.023      | 0.025     | - | 8.33%                 | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L     | 28.2       | 28.7      | - | 1.76%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L     | 0.042      | 0.042     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L     | 0.105      | 0.111     | - | 5.56%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L     | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L     | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L     | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L     | 0.0010     | <0.0005   | - | 66.67%                | -                      | -                       | Pass-1    |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L     | 2.49       | 2.58      | - | 3.55%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L     | 2.52       | 2.55      | - | 1.18%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L     | 0.00115    | 0.00112   | - | 2.64%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L     | 0.00713    | 0.00716   | - | 0.42%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L     | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L     | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L     | 0.000121   | 0.00012   | - | 0.83%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L     | 0.000154   | 0.000128  | - | 18.44%                | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L     | 0.00054    | 0.00053   | - | 1.87%                 | -                      | -                       | Pass      |           |           |



|                               |         |         |   |          |            |          |   |         |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|---------|---|---|--------|--|--|
| Nickel, T                     | 0.0005  | 0.0005  | - | mg/L     | 0.00061    | 0.00064  | - | 4.80%   | - | - | Pass   |  |  |
| Nitrate as N                  | 0.02    | 0.02    | - | mg/L     | 0.088      | 0.093    | - | 5.52%   | - | - | Pass   |  |  |
| Nitrite as N                  | 0.01    | 0.01    | - | mg/L     | <0.0050    | <0.005   | - | 0.00%   | - | - | Pass   |  |  |
| Oil and Grease Total          | 1       | 1       | - | mg/L     | 1.5        | <0.5     | - | 100.00% | - | - | Pass-1 |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | 0.0016     | <0.0005  | - | 104.76% | - | - | Pass-1 |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.44       | 7.45     | - | 0.13%   | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%   | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%   | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 0.865      | 0.898    | - | 3.74%   | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 0.888      | 0.891    | - | 0.34%   | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00186    | 0.00192  | - | 3.17%   | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00192    | 0.00202  | - | 5.08%   | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000116   | 0.000119 | - | 2.55%   | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000114   | 9.4e-005 | - | 19.23%  | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 2.03       | 2.02     | - | 0.49%   | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 2.17       | 2.19     | - | 0.92%   | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 3.76       | 3.88     | - | 3.14%   | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 3.74       | 3.82     | - | 2.12%   | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0224     | 0.0234   | - | 4.37%   | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0233     | 0.0242   | - | 3.79%   | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 4.86       | 5.17     | - | 6.18%   | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | 1.74       | 1.74     | - | 0.00%   | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 1.88       | 1.92     | - | 2.11%   | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | 0.00034  | - | 77.55%  | - | - | Pass-1 |  |  |
| Titanium, T                   | 0.0003  | 0.00273 | - | mg/L     | 0.00195    | <0.00137 | - | 34.94%  | - | - | Pass-1 |  |  |
| Total Dissolved Solids, T     | 13      | 13      | - | mg/L     | 72         | 60       | - | 18.18%  | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 0.404      | 0.377    | - | 6.91%   | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 9.98       | 10.2     | - | 2.18%   | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | <1.5       | <1.5     | - | 0.00%   | - | - | Pass   |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 1.88       | 1.64     | - | 13.64%  | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000094   | 9.6e-005 | - | 2.11%   | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000105   | 0.000102 | - | 2.90%   | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%   | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%   | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0017     | <0.0005  | - | 109.09% | - | - | Pass-1 |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | <0.0015    | <0.0015  | - | 0.00%   | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%   | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>RPD Control Limits</b>                                                                                    |
| Pass - RPD ≤ 20%                                                                                             |
| Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit                                              |
| Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit |
| <b>Exceeds RPD Control Limits</b>                                                                            |

|  |               |                  |                  |          |
|--|---------------|------------------|------------------|----------|
|  | Location:     | SW15             | SW15             | SW15     |
|  | Sample ID:    | SW15_SW_20240301 | SW06_SW_20240301 |          |
|  | Date Sampled: | 3/5/2024         | 3/5/2024         | 3/5/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | 3.7        | 4.5       | - | 19.51%                | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 142        | 137       | - | 3.58%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0358     | 0.035     | - | 2.26%                 | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.554      | 0.553     | - | 0.18%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.226      | 0.234     | - | 3.48%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | 0.00016    | 0.00017   | - | 6.06%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | 0.00021    | 0.0002    | - | 4.88%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00098    | 0.00094   | - | 4.17%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00115    | 0.0012    | - | 4.26%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0208     | 0.0203    | - | 2.43%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0254     | 0.0251    | - | 1.19%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | 0.000028   | 3.1e-005  | - | 10.17%                | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | 5.1        | 5.1       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.016      | 0.017     | - | 6.06%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.018      | 0.019     | - | 5.41%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000085  | 1.07e-005 | - | 22.92%                | -                      | -                       | Pass-1    |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000235  | 2.76e-005 | - | 16.05%                | -                      | -                       | Pass      |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 34.7       | 34.2      | - | 1.45%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 34.0       | 34.3      | - | 0.88%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | 0.000074   | 7.7e-005  | - | 3.97%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 57         | 57        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 10.4       | 12.6      | - | 19.13%                | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | 0.00117    | 0.00126   | - | 7.41%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00046    | 0.00047   | - | 2.15%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 110        | 105       | - | 4.65%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 313        | 310       | - | 0.96%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00196    | 0.0021    | - | 6.90%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00276    | 0.00289   | - | 4.60%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 22.2       | 23        | - | 3.54%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.068      | <0.01     | - | 148.72%               | -                      | -                       | Pass-1    |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 152        | 151       | - | 0.66%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.288      | 0.29      | - | 0.69%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 1.06       | 1.07      | - | 0.94%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000091   | 8.7e-005  | - | 4.49%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000419   | 0.000426  | - | 1.66%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0064     | 0.0066    | - | 3.08%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0076     | 0.0075    | - | 1.32%                 | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 15.8       | 15.9      | - | 0.63%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 15.4       | 15.6      | - | 1.29%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.00108    | 0.00118   | - | 8.85%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0836     | 0.0838    | - | 0.24%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000929   | 0.000932  | - | 0.32%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000897   | 0.000878  | - | 2.14%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00160    | 0.0016    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00236    | 0.00236   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | 0.460      | 0.47      | - | 2.15%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |

|                               |         |         |   |          |            |          |   |         |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|---------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | <0.50      | <0.5     | - | 0.00%   | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.01    | 0.01    | - | mg/L     | 0.0917     | 0.0895   | - | 2.43%   | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.70       | 7.68     | - | 0.26%   | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | 0.134      | 0.125    | - | 6.95%   | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | 0.217      | 0.203    | - | 6.67%   | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 4.65       | 4.43     | - | 4.85%   | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 4.50       | 4.43     | - | 1.57%   | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00293    | 0.00287  | - | 2.07%   | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00415    | 0.00424  | - | 2.15%   | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000253   | 0.000267 | - | 5.38%   | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000258   | 0.000328 | - | 23.89%  | - | - | Pass-1 |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 4.42       | 4.46     | - | 0.90%   | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 5.82       | 5.76     | - | 1.04%   | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | 1.1e-005 | - | 75.00%  | - | - | Pass-1 |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 4.56       | 4.56     | - | 0.00%   | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 4.72       | 4.9      | - | 3.74%   | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0798     | 0.0786   | - | 1.52%   | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0752     | 0.075    | - | 0.27%   | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 14.5       | 14.9     | - | 2.72%   | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | 4.78       | 4.91     | - | 2.68%   | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 4.99       | 4.86     | - | 2.64%   | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | 0.000010   | 1e-005   | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | 0.00011    | 0.00012  | - | 8.70%   | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | 0.0002   | - | 120.00% | - | - | Pass-1 |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00460    | 0.00438  | - | 4.90%   | - | - | Pass   |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.0176     | 0.0186   | - | 5.52%   | - | - | Pass   |  |  |
| Total Dissolved Solids, T     | 13      | 13      | - | mg/L     | 213        | 217      | - | 1.86%   | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.39       | 1.42     | - | 2.14%   | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 24.5       | 23.8     | - | 2.90%   | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | 17.8       | 20       | - | 11.64%  | - | - | Pass   |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 19.5       | 18.6     | - | 4.72%   | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.00141    | 0.00136  | - | 3.61%   | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.00140    | 0.00134  | - | 4.38%   | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | 0.00096    | 0.00098  | - | 2.06%   | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00233    | 0.0024   | - | 2.96%   | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0016     | 0.0033   | - | 69.39%  | - | - | Pass-1 |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | 0.0065     | 0.0079   | - | 19.44%  | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | 0.00055    | 0.00051  | - | 7.55%   | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00066    | 0.00067  | - | 1.50%   | - | - | Pass   |  |  |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>RPD Control Limits</b>                                                                                    |
| Pass - RPD ≤ 20%                                                                                             |
| Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit                                              |
| Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit |
| <b>Exceeds RPD Control Limits</b>                                                                            |

|  |               |                  |                  |          |
|--|---------------|------------------|------------------|----------|
|  | Location:     | SW02             | SW02             | SW02     |
|  | Sample ID:    | SW02_SW_20240402 | SW06_SW_20240402 |          |
|  | Date Sampled: | 4/2/2024         | 4/2/2024         | 4/2/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | 8.7        | 8.8       | - | 1.14%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 106        | 107       | - | 0.94%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0320     | 0.0322    | - | 0.62%                 | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.153      | 0.132     | - | 14.74%                | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.188      | 0.19      | - | 1.06%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00074    | 0.00078   | - | 5.26%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00079    | 0.00078   | - | 1.27%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0126     | 0.0121    | - | 4.05%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0153     | 0.0152    | - | 0.66%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | 3.1        | 3.6       | - | 14.93%                | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000089  | 6.9e-006  | - | 25.32%                | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 24.9       | 25.8      | - | 3.55%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 26.6       | 26.1      | - | 1.90%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | 0.000020   | 1.6e-005  | - | 22.22%                | -                      | -                       | Pass-1    |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 81         | 84        | - | 3.64%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 0.66       | 0.66      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00013    | 0.00011   | - | 16.67%                | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00064    | 0.00061   | - | 4.80%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 157        | 158       | - | 0.63%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 196        | 192       | - | 2.06%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00027    | 0.00028   | - | 3.64%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 30.5       | 29.1      | - | 4.70%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.021      | <0.01     | - | 70.97%                | -                      | -                       | Pass-1    |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 106        | 108       | - | 1.87%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.591      | 0.584     | - | 1.19%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 1.03       | 1.01      | - | 1.96%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000059   | 5.2e-005  | - | 12.61%                | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000203   | 0.000175  | - | 14.81%                | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0017     | 0.0018    | - | 5.71%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0021     | 0.0019    | - | 10.00%                | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 10.7       | 10.7      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 10.4       | 10.6      | - | 1.90%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0810     | 0.0402    | - | 67.33%                | -                      | -                       | Fail      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.348      | 0.341     | - | 2.03%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000079   | 8.3e-005  | - | 4.94%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000096   | 9.7e-005  | - | 1.04%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00054    | 0.00054   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00068    | 0.00068   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |

|                               |         |         |   |          |            |          |   |        |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|--------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | 2.3        | 2.8      | - | 19.61% | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | <0.00050   | <0.0005  | - | 0.00%  | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.45       | 7.46     | - | 0.13%  | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 1.30       | 1.33     | - | 2.28%  | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 1.33       | 1.36     | - | 2.23%  | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00250    | 0.00251  | - | 0.40%  | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00274    | 0.0027   | - | 1.47%  | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000120   | 0.000157 | - | 26.71% | - | - | Pass-1 |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000139   | 0.000125 | - | 10.61% | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 7.21       | 7.32     | - | 1.51%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 7.35       | 7.35     | - | 0.00%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 1.34       | 1.33     | - | 0.75%  | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 1.31       | 1.31     | - | 0.00%  | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0419     | 0.0401   | - | 4.39%  | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0404     | 0.0404   | - | 0.00%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 0.54       | 0.56     | - | 3.64%  | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | <0.25      | <0.25    | - | 0.00%  | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | <0.25      | <0.25    | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Titanium, D                   | 0.00093 | 0.0003  | - | mg/L     | 0.00113    | 0.00106  | - | 6.39%  | - | - | Pass   |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.00421    | 0.00348  | - | 18.99% | - | - | Pass   |  |  |
| Total Dissolved Solids, T     | 13      | 13      | - | mg/L     | 165        | 159      | - | 3.70%  | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.19       | 1.2      | - | 0.84%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 30.5       | 30.1     | - | 1.32%  | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | 7.3        | 6.9      | - | 5.63%  | - | - | Pass   |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 5.96       | 5.58     | - | 6.59%  | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000089   | 8.3e-005 | - | 6.98%  | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000090   | 9.7e-005 | - | 7.49%  | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%  | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00054    | <0.00025 | - | 73.42% | - | - | Pass-1 |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0012     | 0.0011   | - | 8.70%  | - | - | Pass   |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | 0.0031     | <0.0015  | - | 69.57% | - | - | Pass-1 |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |

**RPD Control Limits**  
Pass - RPD ≤ 20%  
Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit  
Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit

**Exceeds RPD Control Limits**

|  |               |                  |                  |          |
|--|---------------|------------------|------------------|----------|
|  | Location:     | SW25             | SW25             | SW25     |
|  | Sample ID:    | SW25_SW_20240501 | SW06_SW_20240501 |          |
|  | Date Sampled: | 5/7/2024         | 5/7/2024         | 5/7/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 108        | 108       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.002                | 0.002                | -                    | mg/L  | 0.0204     | 0.0182    | - | 11.40%                | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.107      | 0.1       | - | 6.76%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0148     | 0.0147    | - | 0.68%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0002               | 0.0002               | -                    | mg/L  | <0.00010   | <0.0001   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | 0.00011    | 0.0001    | - | 9.52%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0002               | 0.0002               | -                    | mg/L  | 0.00068    | 0.00066   | - | 2.99%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00071    | 0.00075   | - | 5.48%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.0139     | 0.0143    | - | 2.84%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0168     | 0.0166    | - | 1.20%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00004              | 0.00004              | -                    | mg/L  | <0.000020  | <2e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.0001               | 0.0001               | -                    | mg/L  | <0.0000500 | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.011      | 0.01      | - | 9.52%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.00001              | 0.00001              | -                    | mg/L  | 0.000232   | <5e-006   | - | 191.56%               | -                      | -                       | Fail      |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000051  | 6.3e-006  | - | 21.05%                | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.1                  | 0.1                  | -                    | mg/L  | 39.6       | 30.8      | - | 25.00%                | -                      | -                       | Fail      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 29.9       | 29.3      | - | 2.03%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | 0.000013   | 1.2e-005  | - | 8.00%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 50         | 49        | - | 2.02%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 11.8       | 11.4      | - | 3.45%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.001                | 0.001                | -                    | mg/L  | <0.000500  | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0002               | 0.0002               | -                    | mg/L  | <0.00010   | <0.0001   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00012    | 0.00011   | - | 8.70%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 67.4       | 67.8      | - | 0.59%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 256        | 257       | - | 0.39%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0004               | 0.0004               | -                    | mg/L  | 0.00104    | 0.0011    | - | 5.61%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00116    | 0.00114   | - | 1.74%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 20.7       | 21        | - | 1.44%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.042      | 0.037     | - | 12.66%                | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 145        | 124       | - | 15.61%                | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.02                 | 0.02                 | -                    | mg/L  | 0.072      | 0.07      | - | 2.82%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.165      | 0.162     | - | 1.83%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.0001               | 0.0001               | -                    | mg/L  | 0.000521   | <5e-005   | - | 164.97%               | -                      | -                       | Pass-1    |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000105   | 9.7e-005  | - | 7.92%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.002                | 0.002                | -                    | mg/L  | 0.0026     | 0.0023    | - | 12.24%                | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0038     | 0.0035    | - | 8.22%                 | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.01                 | 0.01                 | -                    | mg/L  | 11.2       | 11.5      | - | 2.64%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 11.2       | 11.7      | - | 4.37%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0002               | 0.0002               | -                    | mg/L  | 0.0125     | 0.0109    | - | 13.68%                | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0200     | 0.0184    | - | 8.33%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.0001               | 0.0001               | -                    | mg/L  | 0.000506   | 0.000507  | - | 0.20%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000548   | 0.000532  | - | 2.96%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.001                | 0.001                | -                    | mg/L  | 0.00103    | <0.0005   | - | 69.28%                | -                      | -                       | Pass-1    |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00100    | 0.001     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |



|                               |         |         |   |          |            |          |   |         |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|---------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | <0.50      | <0.5     | - | 0.00%   | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | <0.00050   | <0.0005  | - | 0.00%   | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 8.11       | 8.12     | - | 0.12%   | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.1     | 0.1     | - | mg/L     | <0.0500    | <0.05    | - | 0.00%   | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%   | - | - | Pass   |  |  |
| Potassium, D                  | 0.1     | 0.1     | - | mg/L     | 1.82       | 2.03     | - | 10.91%  | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 1.95       | 1.96     | - | 0.51%   | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0004  | 0.0004  | - | mg/L     | 0.00149    | 0.00138  | - | 7.67%   | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00173    | 0.00173  | - | 0.00%   | - | - | Pass   |  |  |
| Selenium, D                   | 0.0001  | 0.0001  | - | mg/L     | 0.000141   | 0.000139 | - | 1.43%   | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000175   | 0.000122 | - | 35.69%  | - | - | Pass-1 |  |  |
| Silicon, D                    | 0.1     | 0.1     | - | mg/L     | 1.87       | 1.89     | - | 1.06%   | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 2.23       | 2.24     | - | 0.45%   | - | - | Pass   |  |  |
| Silver, D                     | 0.00002 | 0.00002 | - | mg/L     | <0.000010  | <1e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Sodium, D                     | 0.1     | 0.1     | - | mg/L     | 3.82       | 4        | - | 4.60%   | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 3.50       | 3.55     | - | 1.42%   | - | - | Pass   |  |  |
| Strontium, D                  | 0.0004  | 0.0004  | - | mg/L     | 0.0672     | 0.0639   | - | 5.03%   | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0708     | 0.0698   | - | 1.42%   | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 11.1       | 11       | - | 0.91%   | - | - | Pass   |  |  |
| Sulfur, D                     | 1       | 1       | - | mg/L     | 3.87       | 3.83     | - | 1.04%   | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 4.34       | 4.3      | - | 0.93%   | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0004  | 0.0004  | - | mg/L     | <0.00020   | <0.0002  | - | 0.00%   | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, D                   | 0.00002 | 0.00002 | - | mg/L     | <0.000010  | <1e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, D                    | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, D                        | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Titanium, D                   | 0.0006  | 0.0006  | - | mg/L     | 0.00106    | 0.00131  | - | 21.10%  | - | - | Pass-1 |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.00374    | 0.00357  | - | 4.65%   | - | - | Pass   |  |  |
| Total Dissolved Solids, T     | 13      | 13      | - | mg/L     | 126        | 124      | - | 1.60%   | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 0.660      | 0.649    | - | 1.68%   | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 19.8       | 20.4     | - | 2.99%   | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | 4.6        | 3.2      | - | 35.90%  | - | - | Pass-1 |  |  |
| Tungsten, D                   | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 4.24       | 3.12     | - | 30.43%  | - | - | Fail   |  |  |
| Uranium, D                    | 0.00002 | 0.00002 | - | mg/L     | 0.000797   | 0.000821 | - | 2.97%   | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000889   | 0.000928 | - | 4.29%   | - | - | Pass   |  |  |
| Vanadium, D                   | 0.001   | 0.001   | - | mg/L     | <0.000500  | <0.0005  | - | 0.00%   | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00067    | 0.00065  | - | 3.03%   | - | - | Pass   |  |  |
| Zinc, D                       | 0.002   | 0.002   | - | mg/L     | 0.316      | 0.0163   | - | 180.38% | - | - | Fail   |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | 0.0038     | 0.0037   | - | 2.67%   | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0006  | 0.0006  | - | mg/L     | <0.00030   | <0.0003  | - | 0.00%   | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00035    | 0.00025  | - | 33.33%  | - | - | Pass-1 |  |  |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>RPD Control Limits</b>                                                                                    |
| Pass - RPD ≤ 20%                                                                                             |
| Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit                                              |
| Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit |
| <b>Exceeds RPD Control Limits</b>                                                                            |

|  |               |                  |                  |          |
|--|---------------|------------------|------------------|----------|
|  | Location:     | SW26             | SW26             | SW26     |
|  | Sample ID:    | SW26_SW_20240604 | SW06_SW_20240604 |          |
|  | Date Sampled: | 6/4/2024         | 6/4/2024         | 6/4/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 128        | 132       | - | 3.08%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0089     | 0.0252    | - | 95.60%                | -                      | -                       | Fail      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.210      | 0.212     | - | 0.95%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0173     | 0.017     | - | 1.75%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | 0.00016    | 0.00015   | - | 6.45%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00126    | 0.00128   | - | 1.57%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00143    | 0.00142   | - | 0.70%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0163     | 0.0188    | - | 14.25%                | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0178     | 0.0177    | - | 0.56%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.012      | 0.012     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.014      | 0.015     | - | 6.90%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | 5.1e-006  | - | 68.42%                | -                      | -                       | Pass-1    |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000062  | 7.3e-006  | - | 16.30%                | -                      | -                       | Pass      |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 34.9       | 36        | - | 3.10%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 35.6       | 36.5      | - | 2.50%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | 0.000027   | 2.6e-005  | - | 3.77%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 63         | 60        | - | 4.88%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 8.44       | 8.41      | - | 0.36%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | 0.00130    | 0.00056   | - | 79.57%                | -                      | -                       | Pass-1    |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00012    | 0.00013   | - | 8.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00021    | 0.00021   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 94.1       | 92.8      | - | 1.39%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 270        | 270       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00125    | 0.00118   | - | 5.76%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00151    | 0.00155   | - | 2.61%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 25.5       | 24.5      | - | 4.00%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.049      | 0.045     | - | 8.51%                 | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 142        | 145       | - | 2.09%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.205      | 0.204     | - | 0.49%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.481      | 0.47      | - | 2.31%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000169   | 0.000166  | - | 1.79%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0030     | 0.0034    | - | 12.50%                | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0042     | 0.0043    | - | 2.35%                 | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 13.2       | 13.4      | - | 1.50%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 12.8       | 13.1      | - | 2.32%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0524     | 0.0524    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0731     | 0.0747    | - | 2.17%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000563   | 0.000561  | - | 0.36%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000620   | 0.000682  | - | 9.52%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00122    | 0.00123   | - | 0.82%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00181    | 0.00145   | - | 22.09%                | -                      | -                       | Pass-1    |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |



|                               |         |         |   |          |            |          |   |        |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|--------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | <0.50      | <0.5     | - | 0.00%  | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | 0.0021     | 0.002    | - | 4.88%  | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.98       | 8.01     | - | 0.38%  | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 1.62       | 2.83     | - | 54.38% | - | - | Fail   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 1.72       | 1.75     | - | 1.73%  | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00156    | 0.00161  | - | 3.15%  | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00197    | 0.0018   | - | 9.02%  | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000188   | 0.000149 | - | 23.15% | - | - | Pass-1 |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000160   | 0.000176 | - | 9.52%  | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 2.00       | 2        | - | 0.00%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 2.60       | 2.58     | - | 0.77%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 3.82       | 3.86     | - | 1.04%  | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 3.72       | 3.78     | - | 1.60%  | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0816     | 0.0805   | - | 1.36%  | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0783     | 0.0803   | - | 2.52%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 10.4       | 10.4     | - | 0.00%  | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | 3.92       | 4.41     | - | 11.76% | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 4.35       | 4.3      | - | 1.16%  | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00056    | 0.00049  | - | 13.33% | - | - | Pass   |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.00741    | 0.00731  | - | 1.36%  | - | - | Pass   |  |  |
| Total Dissolved Solids, T     | 13      | 13      | - | mg/L     | 186        | 199      | - | 6.75%  | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 0.843      | 0.788    | - | 6.74%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 21.7       | 22.1     | - | 1.83%  | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | <1.5       | 3.4      | - | 77.55% | - | - | Pass-1 |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 5.66       | 5.89     | - | 3.98%  | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000575   | 0.000563 | - | 2.11%  | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000634   | 0.000639 | - | 0.79%  | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | 0.00056    | 0.00056  | - | 0.00%  | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00114    | 0.00116  | - | 1.74%  | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0069     | 0.0063   | - | 9.09%  | - | - | Pass   |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | 0.0087     | 0.0088   | - | 1.14%  | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00035    | 0.00035  | - | 0.00%  | - | - | Pass   |  |  |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>RPD Control Limits</b>                                                                                    |
| Pass - RPD ≤ 20%                                                                                             |
| Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit                                              |
| Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit |
| <b>Exceeds RPD Control Limits</b>                                                                            |

|  |               |                   |                  |           |
|--|---------------|-------------------|------------------|-----------|
|  | Location:     | SW28A             | SW28A            | SW28A     |
|  | Sample ID:    | SW28A_SW_20240702 | SW06_SW_20240702 |           |
|  | Date Sampled: | 7/10/2024         | 7/10/2024        | 7/10/2024 |
|  | Sample Type:  | Primary           | Secondary        | Tertiary  |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 83.0       | 81.5      | - | 1.82%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0100     | 0.0101    | - | 1.00%                 | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.0646     | 0.0598    | - | 7.72%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0202     | 0.0193    | - | 4.56%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00119    | 0.00116   | - | 2.55%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00131    | 0.0013    | - | 0.77%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00879    | 0.00855   | - | 2.77%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00933    | 0.00927   | - | 0.65%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.011      | 0.011     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.011      | 0.011     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | 9.6e-006  | - | 117.36%               | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 21.9       | 21.2      | - | 3.25%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 22.3       | 22.9      | - | 2.65%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 92         | 87        | - | 5.59%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 0.37       | 0.38      | - | 2.67%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00010    | 0.00011   | - | 9.52%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00014    | 0.00014   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 162        | 162       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 154        | 154       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00036    | 0.00036   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 35.3       | 35.2      | - | 0.28%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.042      | 0.041     | - | 2.41%                 | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 94.6       | 94        | - | 0.64%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.242      | 0.237     | - | 2.09%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.339      | 0.345     | - | 1.75%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0024     | 0.0028    | - | 15.38%                | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0027     | 0.0027    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 9.69       | 9.96      | - | 2.75%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 9.95       | 9.95      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0198     | 0.02      | - | 1.01%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0325     | 0.0317    | - | 2.49%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000316   | 0.000313  | - | 0.95%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000331   | 0.000321  | - | 3.07%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00091    | 0.00092   | - | 1.09%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00105    | 0.00111   | - | 5.56%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |

|                               |         |         |   |          |            |          |   |        |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|--------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | <0.50      | <0.5     | - | 0.00%  | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | <0.00050   | <0.0005  | - | 0.00%  | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.92       | 7.93     | - | 0.13%  | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 0.189      | 0.198    | - | 4.65%  | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 0.216      | 0.223    | - | 3.19%  | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00069    | 0.00067  | - | 2.94%  | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00084    | 0.00087  | - | 3.51%  | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000145   | 0.000162 | - | 11.07% | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000180   | 0.000168 | - | 6.90%  | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 1.20       | 1.22     | - | 1.65%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 1.44       | 1.41     | - | 2.11%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 0.781      | 0.823    | - | 5.24%  | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 0.861      | 0.866    | - | 0.58%  | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0423     | 0.044    | - | 3.94%  | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0454     | 0.0434   | - | 4.50%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | <0.15      | <0.15    | - | 0.00%  | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | <0.25      | <0.25    | - | 0.00%  | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | <0.25      | <0.25    | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0006  | - | mg/L     | 0.00056    | 0.00076  | - | 30.30% | - | - | Pass-1 |  |  |
| Titanium, T                   | 0.0003  | 0.00288 | - | mg/L     | 0.00241    | <0.00144 | - | 50.39% | - | - | Pass-1 |  |  |
| Total Dissolved Solids, T     | 13      | 13      | - | mg/L     | 125        | 140      | - | 11.32% | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.33       | 1.33     | - | 0.00%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 32.4       | 34.5     | - | 6.28%  | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | <1.5       | <1.5     | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 1.31       | 1.17     | - | 11.29% | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000140   | 0.000132 | - | 5.88%  | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000155   | 0.000152 | - | 1.95%  | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%  | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00066    | 0.00065  | - | 1.53%  | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0040     | 0.0023   | - | 53.97% | - | - | Pass-1 |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | <0.0015    | <0.0015  | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00024    | <0.0001  | - | 82.35% | - | - | Pass-1 |  |  |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>RPD Control Limits</b>                                                                                    |
| Pass - RPD ≤ 20%                                                                                             |
| Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit                                              |
| Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit |
| <b>Exceeds RPD Control Limits</b>                                                                            |

|  |               |                  |                  |          |
|--|---------------|------------------|------------------|----------|
|  | Location:     | SW20             | SW20             | SW20     |
|  | Sample ID:    | SW20_SW_20240802 | SW06_SW_20240802 |          |
|  | Date Sampled: | 8/7/2024         | 8/7/2024         | 8/7/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | 2.2        | 2.3       | - | 4.44%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 128        | 131       | - | 2.32%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0107     | 0.0103    | - | 3.81%                 | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.0898     | 0.0975    | - | 8.22%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0351     | 0.034     | - | 3.18%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00138    | 0.00144   | - | 4.26%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00152    | 0.00153   | - | 0.66%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0160     | 0.0154    | - | 3.82%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0162     | 0.0167    | - | 3.04%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | 0.000021   | <1e-005   | - | 70.97%                | -                      | -                       | Pass-1    |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | 2.2e-005  | - | 75.00%                | -                      | -                       | Pass-1    |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.016      | 0.015     | - | 6.45%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.015      | 0.015     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 31.2       | 31.2      | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 30.4       | 30.6      | - | 0.66%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | 0.000013   | 1.5e-005  | - | 14.29%                | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 87         | 84        | - | 3.51%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 17.4       | 17.2      | - | 1.16%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | 0.00055   | - | 75.00%                | -                      | -                       | Pass-1    |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00027    | 0.00027   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00032    | 0.00034   | - | 6.06%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 150        | 152       | - | 1.32%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 282        | 279       | - | 1.07%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00023    | 0.00023   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 34.3       | 32.6      | - | 5.08%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.048      | 0.048     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 135        | 133       | - | 1.49%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.441      | 0.438     | - | 0.68%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.664      | 0.663     | - | 0.15%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000081   | 9e-005    | - | 10.53%                | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0038     | 0.0041    | - | 7.59%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0038     | 0.0039    | - | 2.60%                 | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 13.9       | 13.5      | - | 2.92%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 13.7       | 13.9      | - | 1.45%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.104      | 0.102     | - | 1.94%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.117      | 0.119     | - | 1.69%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.0000250 | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.0000250 | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000260   | 0.000431  | - | 49.49%                | -                      | -                       | Pass-1    |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000241   | 0.000249  | - | 3.27%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00137    | 0.00136   | - | 0.73%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00156    | 0.00156   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |

|                               |         |         |   |          |            |          |   |        |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|--------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | <0.50      | <0.5     | - | 0.00%  | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | 0.0219     | 0.0226   | - | 3.15%  | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.76       | 7.78     | - | 0.26%  | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | 0.060      | 0.051    | - | 16.22% | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 0.892      | 0.896    | - | 0.45%  | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 0.858      | 0.879    | - | 2.42%  | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00146    | 0.00146  | - | 0.00%  | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00176    | 0.00174  | - | 1.14%  | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000242   | 0.000231 | - | 4.65%  | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000187   | 0.000247 | - | 27.65% | - | - | Pass-1 |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 5.26       | 5.35     | - | 1.70%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 5.63       | 5.79     | - | 2.80%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 9.18       | 9.25     | - | 0.76%  | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 8.97       | 9.18     | - | 2.31%  | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0883     | 0.0837   | - | 5.35%  | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0843     | 0.0853   | - | 1.18%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | <0.15      | <0.15    | - | 0.00%  | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | <0.25      | <0.25    | - | 0.00%  | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | <0.25      | 0.57     | - | 78.05% | - | - | Pass-1 |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00073    | 0.00093  | - | 24.10% | - | - | Pass-1 |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.00294    | 0.0037   | - | 22.89% | - | - | Fail   |  |  |
| Total Dissolved Solids, T     | 20      | 20      | - | mg/L     | 232        | 233      | - | 0.43%  | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.27       | 1.22     | - | 4.02%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 33.6       | 33.2     | - | 1.20%  | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | 3.8        | 5.2      | - | 31.11% | - | - | Pass-1 |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 3.78       | 4.38     | - | 14.71% | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000152   | 0.000146 | - | 4.03%  | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000163   | 0.000162 | - | 0.62%  | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%  | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00064    | 0.00073  | - | 13.14% | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0034     | 0.0028   | - | 19.35% | - | - | Pass   |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | <0.0015    | <0.0015  | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | 0.00033    | 0.00032  | - | 3.08%  | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00039    | 0.00032  | - | 19.72% | - | - | Pass   |  |  |

**RPD Control Limits**  
Pass - RPD ≤ 20%  
Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit  
Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit

**Exceeds RPD Control Limits**

|  |               |                   |                  |          |
|--|---------------|-------------------|------------------|----------|
|  | Location:     | SW21A             | SW21A            | SW21A    |
|  | Sample ID:    | SW21A_SW_20240802 | SW06_SW_20240901 |          |
|  | Date Sampled: | 8/7/2024          | 8/7/2024         | 8/7/2024 |
|  | Sample Type:  | Primary           | Secondary        | Tertiary |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | 3.3        | 3.6       | - | 8.70%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 158        | 190       | - | 18.39%                | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0058     | 0.0046    | - | 23.08%                | -                      | -                       | Pass-1    |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.0105     | 0.0267    | - | 87.10%                | -                      | -                       | Pass-1    |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0339     | 0.0519    | - | 41.96%                | -                      | -                       | Fail      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00239    | 0.0015    | - | 45.76%                | -                      | -                       | Fail      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00248    | 0.00157   | - | 44.94%                | -                      | -                       | Fail      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0178     | 0.0137    | - | 26.03%                | -                      | -                       | Fail      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0182     | 0.0138    | - | 27.50%                | -                      | -                       | Fail      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.017      |           | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.020      | 0.017     | - | 16.22%                | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000060  | <2.5e-006 | - | 82.35%                | -                      | -                       | Pass-1    |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000069  | <2.5e-006 | - | 93.62%                | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 34.9       | 38        | - | 8.50%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 35.1       | 39.3      | - | 11.29%                | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 82         | 75        | - | 8.92%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 10.2       | 11.2      | - | 9.35%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00092    | 0.00034   | - | 92.06%                | -                      | -                       | Pass-1    |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00094    | 0.00036   | - | 89.23%                | -                      | -                       | Pass-1    |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 138        | 94.3      | - | 37.62%                | -                      | -                       | Fail      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 296        | 314       | - | 5.90%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00051    | 0.00025   | - | 68.42%                | -                      | -                       | Pass-1    |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 34.6       | 30.4      | - | 12.92%                | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.051      | 0.046     | - | 10.31%                | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 148        | 160       | - | 7.79%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.641      | 0.312     | - | 69.05%                | -                      | -                       | Fail      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.843      | 0.465     | - | 57.80%                | -                      | -                       | Fail      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0048     | 0.0052    | - | 8.00%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0044     | 0.0053    | - | 18.56%                | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 14.9       | 15.8      | - | 5.86%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 14.3       | 16.1      | - | 11.84%                | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 1.70       | 0.203     | - | 157.33%               | -                      | -                       | Fail      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 1.79       | 0.224     | - | 155.51%               | -                      | -                       | Fail      |           |           |
| Mercury, D                  | 0.00005              | 0.000005             | -                    | mg/L  | <0.0000250 | <2.5e-006 | - | 163.64%               | -                      | -                       | Pass-1    |           |           |
| Mercury, T                  | 0.00005              | 0.000005             | -                    | mg/L  | <0.0000250 | <2.5e-006 | - | 163.64%               | -                      | -                       | Pass-1    |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000351   | 0.000217  | - | 47.18%                | -                      | -                       | Pass-1    |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000329   | 0.000234  | - | 33.75%                | -                      | -                       | Pass-1    |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00143    | 0.00117   | - | 20.00%                | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00158    | 0.00126   | - | 22.54%                | -                      | -                       | Pass-1    |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |



|                               |         |         |   |          |            |          |   |         |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|---------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | 1.9        | <0.5     | - | 116.67% | - | - | Pass-1 |  |  |
| Orthophosphate-Dissolved as P | 0.01    | 0.01    | - | mg/L     | 0.0650     | 0.05     | - | 26.09%  | - | - | Pass-1 |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.76       | 7.61     | - | 1.95%   | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | 0.088      | 0.077    | - | 13.33%  | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | 0.125      | 0.106    | - | 16.45%  | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 1.45       | 1.85     | - | 24.24%  | - | - | Fail   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 1.37       | 1.88     | - | 31.38%  | - | - | Fail   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00223    | 0.00275  | - | 20.88%  | - | - | Fail   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00239    | 0.00306  | - | 24.59%  | - | - | Fail   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000263   | 0.000165 | - | 45.79%  | - | - | Pass-1 |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000256   | 0.00021  | - | 19.74%  | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 7.56       | 6.55     | - | 14.32%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 7.64       | 6.77     | - | 12.07%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 6.08       | 5.85     | - | 3.86%   | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 5.93       | 6.08     | - | 2.50%   | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0944     | 0.0969   | - | 2.61%   | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0925     | 0.103    | - | 10.74%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | <0.15      | 0.32     | - | 72.34%  | - | - | Pass-1 |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | <0.25      | 0.6      | - | 82.35%  | - | - | Pass-1 |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | <0.25      | 0.56     | - | 76.54%  | - | - | Pass-1 |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00036    | <0.00015 | - | 82.35%  | - | - | Pass-1 |  |  |
| Titanium, T                   | 0.0009  | 0.0003  | - | mg/L     | <0.00045   | 0.00116  | - | 88.20%  | - | - | Pass-1 |  |  |
| Total Dissolved Solids, T     | 20      | 20      | - | mg/L     | 244        | 240      | - | 1.65%   | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.43       | 1.24     | - | 14.23%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 33.9       | 31.6     | - | 7.02%   | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | 4.5        | <1.5     | - | 100.00% | - | - | Pass-1 |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 2.80       | 1.72     | - | 47.79%  | - | - | Fail   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000096   | 0.000149 | - | 43.27%  | - | - | Fail   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000097   | 0.000168 | - | 53.58%  | - | - | Fail   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%   | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%   | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0013     | 0.0011   | - | 16.67%  | - | - | Pass   |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | <0.0015    | <0.0015  | - | 0.00%   | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%   | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |

**RPD Control Limits**  
Pass - RPD ≤ 20%  
Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit  
Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit

**Exceeds RPD Control Limits**

|                                                          |                  |                  |           |
|----------------------------------------------------------|------------------|------------------|-----------|
| Location:<br>Sample ID:<br>Date Sampled:<br>Sample Type: | SW27             | SW27             | SW27      |
|                                                          | SW27_SW_20241001 | SW06_SW_20241001 |           |
|                                                          | 10/2/2024        | 10/2/2024        | 10/2/2024 |
|                                                          | Primary          | Secondary        | Tertiary  |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | 5.1        | 6.4       | - | 22.61%                | -                      | -                       | Pass-1    |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 233        | 240       | - | 2.96%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0099     | 0.0025    | - | 119.35%               | -                      | -                       | Pass-1    |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.0541     | 0.0507    | - | 6.49%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0072     | 0.007     | - | 2.82%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00114    | 0.00116   | - | 1.74%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00128    | 0.00134   | - | 4.58%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0246     | 0.0232    | - | 5.86%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0249     | 0.0254    | - | 1.99%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.018      | 0.018     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.019      | 0.019     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000288  | 1.19e-005 | - | 83.05%                | -                      | -                       | Pass-1    |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000238  | 1.34e-005 | - | 55.91%                | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 60.1       | 59.7      | - | 0.67%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 60.9       | 61.3      | - | 0.65%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 76         | 76        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 13.0       | 12.9      | - | 0.77%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00018    | 0.00019   | - | 5.41%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00022    | 0.00022   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 65.7       | 65.8      | - | 0.15%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 444        | 447       | - | 0.67%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00039    | 0.00027   | - | 36.36%                | -                      | -                       | Pass-1    |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 24.2       | 24.3      | - | 0.41%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.058      | 0.064     | - | 9.84%                 | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 236        | 239       | - | 1.26%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.135      | 0.134     | - | 0.74%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.245      | 0.248     | - | 1.22%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0070     | 0.0072    | - | 2.82%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0065     | 0.0066    | - | 1.53%                 | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 21.0       | 21.9      | - | 4.20%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 22.0       | 22.2      | - | 0.91%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.188      | 0.185     | - | 1.61%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.224      | 0.217     | - | 3.17%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000261   | 0.000252  | - | 3.51%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000250   | 0.000269  | - | 7.32%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00095    | 0.00098   | - | 3.11%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00108    | 0.00108   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |



|                               |         |         |   |          |            |          |   |        |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|--------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | <0.50      | <0.5     | - | 0.00%  | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | 0.0370     | 0.0358   | - | 3.30%  | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.83       | 7.78     | - | 0.64%  | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | 0.050      | 0.057    | - | 13.08% | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | 0.073      | 0.078    | - | 6.62%  | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 2.77       | 2.7      | - | 2.56%  | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 2.88       | 2.89     | - | 0.35%  | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00210    | 0.00211  | - | 0.48%  | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00234    | 0.00238  | - | 1.69%  | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000137   | 0.000177 | - | 25.48% | - | - | Pass-1 |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000164   | 0.000122 | - | 29.37% | - | - | Pass-1 |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 5.22       | 5.04     | - | 3.51%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 5.20       | 5.36     | - | 3.03%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 6.62       | 6.95     | - | 4.86%  | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 6.72       | 6.64     | - | 1.20%  | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.147      | 0.151    | - | 2.68%  | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.149      | 0.151    | - | 1.33%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 27.4       | 27.1     | - | 1.10%  | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | 9.24       | 8.69     | - | 6.14%  | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 9.16       | 9.51     | - | 3.75%  | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00039    | 0.00037  | - | 5.26%  | - | - | Pass   |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.00227    | 0.00214  | - | 5.90%  | - | - | Pass   |  |  |
| Total Dissolved Solids, T     | 20      | 20      | - | mg/L     | 289        | 278      | - | 3.88%  | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.12       | 1.16     | - | 3.51%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 22.8       | 23.7     | - | 3.87%  | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | <1.5       | <1.5     | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 1.80       | 2.34     | - | 26.09% | - | - | Fail   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000486   | 0.000504 | - | 3.64%  | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000502   | 0.000498 | - | 0.80%  | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%  | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%  | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0135     | 0.0074   | - | 58.37% | - | - | Fail   |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | 0.0134     | 0.0057   | - | 80.63% | - | - | Pass-1 |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |

**RPD Control Limits**  
Pass - RPD ≤ 20%  
Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit  
Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit

**Exceeds RPD Control Limits**

|  |               |                  |                  |           |
|--|---------------|------------------|------------------|-----------|
|  | Location:     | SW10             | SW10             | SW10      |
|  | Sample ID:    | SW10_SW_20241105 | SW06_SW_20241105 |           |
|  | Date Sampled: | 11/5/2024        | 11/5/2024        | 11/5/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary  |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | 3.6        | 3.4       | - | 5.71%                 | -                      | -                       | Pass      |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 135        | 138       | - | 2.20%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0749     | 0.0786    | - | 4.82%                 | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.105      | 0.106     | - | 0.95%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0117     | 0.0116    | - | 0.86%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | <0.000050  | <5e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00082    | 0.00082   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00086    | 0.00081   | - | 5.99%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0141     | 0.0142    | - | 0.71%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0144     | 0.0149    | - | 3.41%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.014      | 0.015     | - | 6.90%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.015      | 0.017     | - | 12.50%                | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | 6e-006    | - | 82.35%                | -                      | -                       | Pass-1    |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 33.0       | 32.8      | - | 0.61%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 33.6       | 33.8      | - | 0.59%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | <5e-006   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | 0.000012   | 1.1e-005  | - | 8.70%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 76         | 73        | - | 4.03%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 17.0       | 17.3      | - | 1.75%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00014    | 0.00014   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00015    | 0.00017   | - | 12.50%                | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 110        | 112       | - | 1.80%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 305        | 305       | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00050    | 0.0005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00055    | 0.00053   | - | 3.70%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 29.0       | 28.8      | - | 0.69%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.036      | 0.031     | - | 14.93%                | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 141        | 137       | - | 2.88%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.299      | 0.279     | - | 6.92%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.331      | 0.308     | - | 7.20%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000052   | 5.2e-005  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000058   | 5.8e-005  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0059     | 0.0063    | - | 6.56%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0055     | 0.0064    | - | 15.13%                | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 14.2       | 13.5      | - | 5.05%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 14.3       | 13.5      | - | 5.76%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0193     | 0.0194    | - | 0.52%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0198     | 0.0198    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000286   | 0.00029   | - | 1.39%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000291   | 0.000315  | - | 7.92%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00124    | 0.00122   | - | 1.63%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00129    | 0.00134   | - | 3.80%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | <0.010     | <0.01     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |

|                               |         |         |   |          |            |          |   |        |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|--------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | <0.50      | <0.5     | - | 0.00%  | - | - | Pass   |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | 0.0085     | 0.0082   | - | 3.59%  | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 8.00       | 8.08     | - | 1.00%  | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%  | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 1.87       | 1.91     | - | 2.12%  | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 1.91       | 1.93     | - | 1.04%  | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00196    | 0.00195  | - | 0.51%  | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00202    | 0.00206  | - | 1.96%  | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000151   | 0.000159 | - | 5.16%  | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000117   | 0.000138 | - | 16.47% | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 4.36       | 4.44     | - | 1.82%  | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 4.58       | 4.56     | - | 0.44%  | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 8.96       | 8.28     | - | 7.89%  | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 8.09       | 7.65     | - | 5.59%  | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.0821     | 0.0866   | - | 5.33%  | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.0901     | 0.0904   | - | 0.33%  | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 3.03       | 3.08     | - | 1.64%  | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | 1.43       | 1.47     | - | 2.76%  | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 1.40       | 1.44     | - | 2.82%  | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00321    | 0.00322  | - | 0.31%  | - | - | Pass   |  |  |
| Titanium, T                   | 0.00477 | 0.0003  | - | mg/L     | <0.00239   | 0.00327  | - | 31.10% | - | - | Fail   |  |  |
| Total Dissolved Solids, T     | 20      | 20      | - | mg/L     | 209        | 204      | - | 2.42%  | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 0.866      | 0.926    | - | 6.70%  | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 28.3       | 26.8     | - | 5.44%  | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | <1.5       | <1.5     | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%  | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 3.84       | 4.32     | - | 11.76% | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000516   | 0.000547 | - | 5.83%  | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000543   | 0.000567 | - | 4.32%  | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | 0.00059    | 0.00057  | - | 3.45%  | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00078    | 0.00078  | - | 0.00%  | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | <0.00050   | 0.0011   | - | 75.00% | - | - | Pass-1 |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | <0.0015    | <0.0015  | - | 0.00%  | - | - | Pass   |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | 0.00030    | 0.00033  | - | 9.52%  | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00028    | 0.00029  | - | 3.51%  | - | - | Pass   |  |  |

**RPD Control Limits**  
Pass - RPD ≤ 20%  
Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit  
Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit

**Exceeds RPD Control Limits**

|  |               |                  |                  |           |
|--|---------------|------------------|------------------|-----------|
|  | Location:     | SW03             | SW03             | SW03      |
|  | Sample ID:    | SW03_SW_20241203 | SW06_SW_20241203 |           |
|  | Date Sampled: | 12/3/2024        | 12/3/2024        | 12/3/2024 |
|  | Sample Type:  | Primary          | Secondary        | Tertiary  |

| Analyte                     | Detection Limit Pri. | Detection Limit Dup. | Detection Limit Tri. | Units |            |           |   | Primary vs. Duplicate | Primary vs. Triplicate | Duplicate v. Triplicate | Category1 | Category2 | Category3 |
|-----------------------------|----------------------|----------------------|----------------------|-------|------------|-----------|---|-----------------------|------------------------|-------------------------|-----------|-----------|-----------|
| Acidity as CaCO3            | 2                    | 2                    | -                    | mg/L  | 5.3        | 3.6       | - | 38.20%                | -                      | -                       | Pass-1    |           |           |
| Alkalinity, Total as CaCO3  | 2                    | 2                    | -                    | mg/L  | 164        | 162       | - | 1.23%                 | -                      | -                       | Pass      |           |           |
| Aluminum, D                 | 0.001                | 0.001                | -                    | mg/L  | 0.0162     | 0.014     | - | 14.57%                | -                      | -                       | Pass      |           |           |
| Aluminum, T                 | 0.003                | 0.003                | -                    | mg/L  | 0.195      | 0.21      | - | 7.41%                 | -                      | -                       | Pass      |           |           |
| Ammonia, Total as N         | 0.005                | 0.005                | -                    | mg/L  | 0.0297     | 0.0264    | - | 11.76%                | -                      | -                       | Pass      |           |           |
| Ammonia, Un-ionized as N    | 0.001                | 0.001                | -                    | mg/L  | <0.00050   | <0.0005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, D                 | 0.0001               | 0.0001               | -                    | mg/L  | 0.00056    | 0.00056   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Antimony, T                 | 0.0001               | 0.0001               | -                    | mg/L  | 0.00057    | 0.00058   | - | 1.74%                 | -                      | -                       | Pass      |           |           |
| Arsenic, D                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00079    | 0.0008    | - | 1.26%                 | -                      | -                       | Pass      |           |           |
| Arsenic, T                  | 0.0001               | 0.0001               | -                    | mg/L  | 0.00092    | 0.00093   | - | 1.08%                 | -                      | -                       | Pass      |           |           |
| Barium, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0177     | 0.018     | - | 1.68%                 | -                      | -                       | Pass      |           |           |
| Barium, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.0178     | 0.018     | - | 1.12%                 | -                      | -                       | Pass      |           |           |
| Beryllium, D                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | <1e-005   | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Beryllium, T                | 0.00002              | 0.00002              | -                    | mg/L  | <0.000010  | 2.2e-005  | - | 75.00%                | -                      | -                       | Pass-1    |           |           |
| Biochemical Oxygen Demand   | 2                    | 2                    | -                    | mg/L  | <1.0       | <1        | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, D                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Bismuth, T                  | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Boron, D                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.018      | 0.019     | - | 5.41%                 | -                      | -                       | Pass      |           |           |
| Boron, T                    | 0.01                 | 0.01                 | -                    | mg/L  | 0.018      | 0.018     | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cadmium, D                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000061  | 6e-006    | - | 1.65%                 | -                      | -                       | Pass      |           |           |
| Cadmium, T                  | 0.000005             | 0.000005             | -                    | mg/L  | 0.0000087  | 6.9e-006  | - | 23.08%                | -                      | -                       | Pass-1    |           |           |
| Calcium, D                  | 0.05                 | 0.05                 | -                    | mg/L  | 45.0       | 42.8      | - | 5.01%                 | -                      | -                       | Pass      |           |           |
| Calcium, T                  | 0.05                 | 0.05                 | -                    | mg/L  | 40.8       | 42.2      | - | 3.37%                 | -                      | -                       | Pass      |           |           |
| Cesium, D                   | 0.00001              | 0.00001              | -                    | mg/L  | <0.0000050 | 1.1e-005  | - | 75.00%                | -                      | -                       | Pass-1    |           |           |
| Cesium, T                   | 0.00001              | 0.00001              | -                    | mg/L  | 0.000036   | 3.6e-005  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chemical Oxygen Demand      | 10                   | 10                   | -                    | mg/L  | 67         | 68        | - | 1.48%                 | -                      | -                       | Pass      |           |           |
| Chloride                    | 0.1                  | 0.1                  | -                    | mg/L  | 16.6       | 17.1      | - | 2.97%                 | -                      | -                       | Pass      |           |           |
| Chromium, D                 | 0.0005               | 0.0005               | -                    | mg/L  | <0.00025   | <0.00025  | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Chromium, T                 | 0.0005               | 0.0005               | -                    | mg/L  | 0.00059    | 0.00061   | - | 3.33%                 | -                      | -                       | Pass      |           |           |
| Cobalt, D                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00019    | 0.0002    | - | 5.13%                 | -                      | -                       | Pass      |           |           |
| Cobalt, T                   | 0.0001               | 0.0001               | -                    | mg/L  | 0.00029    | 0.00028   | - | 3.51%                 | -                      | -                       | Pass      |           |           |
| Color True                  | 2                    | 2                    | -                    | CU    | 90.8       | 95.6      | - | 5.15%                 | -                      | -                       | Pass      |           |           |
| Conductivity                | 1                    | 1                    | -                    | µS/cm | 379        | 376       | - | 0.79%                 | -                      | -                       | Pass      |           |           |
| Copper, D                   | 0.0002               | 0.0002               | -                    | mg/L  | 0.00134    | 0.00132   | - | 1.50%                 | -                      | -                       | Pass      |           |           |
| Copper, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00153    | 0.00154   | - | 0.65%                 | -                      | -                       | Pass      |           |           |
| Cyanide Free                | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide Weak Acid Diss      | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Cyanide, Total              | 0.002                | 0.002                | -                    | mg/L  | <0.0010    | <0.001    | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Dissolved Organic Carbon, D | 0.5                  | 0.5                  | -                    | mg/L  | 27.9       | 28.7      | - | 2.83%                 | -                      | -                       | Pass      |           |           |
| Fluoride as F               | 0.02                 | 0.02                 | -                    | mg/L  | 0.036      | 0.043     | - | 17.72%                | -                      | -                       | Pass      |           |           |
| Hardness as CaCO3           | 0.5                  | 0.5                  | -                    | mg/L  | 178        | 170       | - | 4.60%                 | -                      | -                       | Pass      |           |           |
| Iron, D                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.176      | 0.171     | - | 2.88%                 | -                      | -                       | Pass      |           |           |
| Iron, T                     | 0.01                 | 0.01                 | -                    | mg/L  | 0.438      | 0.424     | - | 3.25%                 | -                      | -                       | Pass      |           |           |
| Lead, D                     | 0.00005              | 0.00005              | -                    | mg/L  | <0.000025  | <2.5e-005 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Lead, T                     | 0.00005              | 0.00005              | -                    | mg/L  | 0.000121   | 0.000106  | - | 13.22%                | -                      | -                       | Pass      |           |           |
| Lithium, D                  | 0.001                | 0.001                | -                    | mg/L  | 0.0058     | 0.0064    | - | 9.84%                 | -                      | -                       | Pass      |           |           |
| Lithium, T                  | 0.001                | 0.001                | -                    | mg/L  | 0.0052     | 0.0058    | - | 10.91%                | -                      | -                       | Pass      |           |           |
| Magnesium, D                | 0.005                | 0.005                | -                    | mg/L  | 16.0       | 15.3      | - | 4.47%                 | -                      | -                       | Pass      |           |           |
| Magnesium, T                | 0.005                | 0.005                | -                    | mg/L  | 16.5       | 16.1      | - | 2.45%                 | -                      | -                       | Pass      |           |           |
| Manganese, D                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0389     | 0.0385    | - | 1.03%                 | -                      | -                       | Pass      |           |           |
| Manganese, T                | 0.0001               | 0.0001               | -                    | mg/L  | 0.0524     | 0.0513    | - | 2.12%                 | -                      | -                       | Pass      |           |           |
| Mercury, D                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Mercury, T                  | 0.000005             | 0.000005             | -                    | mg/L  | <0.0000025 | <2.5e-006 | - | 0.00%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, D               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000791   | 0.000819  | - | 3.48%                 | -                      | -                       | Pass      |           |           |
| Molybdenum, T               | 0.00005              | 0.00005              | -                    | mg/L  | 0.000753   | 0.00082   | - | 8.52%                 | -                      | -                       | Pass      |           |           |
| Nickel, D                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00155    | 0.00154   | - | 0.65%                 | -                      | -                       | Pass      |           |           |
| Nickel, T                   | 0.0005               | 0.0005               | -                    | mg/L  | 0.00174    | 0.00177   | - | 1.71%                 | -                      | -                       | Pass      |           |           |
| Nitrate as N                | 0.02                 | 0.02                 | -                    | mg/L  | 0.059      | 0.05      | - | 16.51%                | -                      | -                       | Pass      |           |           |
| Nitrite as N                | 0.01                 | 0.01                 | -                    | mg/L  | <0.0050    | <0.005    | - | 0.00%                 | -                      | -                       | Pass      |           |           |

|                               |         |         |   |          |            |          |   |         |   |   |        |  |  |
|-------------------------------|---------|---------|---|----------|------------|----------|---|---------|---|---|--------|--|--|
| Oil and Grease Total          | 1       | 1       | - | mg/L     | 1.5        | <0.5     | - | 100.00% | - | - | Pass-1 |  |  |
| Orthophosphate-Dissolved as P | 0.001   | 0.001   | - | mg/L     | 0.0042     | 0.004    | - | 4.88%   | - | - | Pass   |  |  |
| pH                            | 0.1     | 0.1     | - | pH Units | 7.76       | 7.74     | - | 0.26%   | - | - | Pass   |  |  |
| Phosphorus, D                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%   | - | - | Pass   |  |  |
| Phosphorus, T                 | 0.05    | 0.05    | - | mg/L     | <0.025     | <0.025   | - | 0.00%   | - | - | Pass   |  |  |
| Potassium, D                  | 0.05    | 0.05    | - | mg/L     | 4.89       | 4.61     | - | 5.89%   | - | - | Pass   |  |  |
| Potassium, T                  | 0.05    | 0.05    | - | mg/L     | 4.56       | 4.54     | - | 0.44%   | - | - | Pass   |  |  |
| Rubidium, D                   | 0.0002  | 0.0002  | - | mg/L     | 0.00318    | 0.00313  | - | 1.58%   | - | - | Pass   |  |  |
| Rubidium, T                   | 0.0002  | 0.0002  | - | mg/L     | 0.00364    | 0.00356  | - | 2.22%   | - | - | Pass   |  |  |
| Selenium, D                   | 0.00005 | 0.00005 | - | mg/L     | 0.000169   | 0.000178 | - | 5.19%   | - | - | Pass   |  |  |
| Selenium, T                   | 0.00005 | 0.00005 | - | mg/L     | 0.000177   | 0.000166 | - | 6.41%   | - | - | Pass   |  |  |
| Silicon, D                    | 0.05    | 0.05    | - | mg/L     | 5.25       | 5.35     | - | 1.89%   | - | - | Pass   |  |  |
| Silicon, T                    | 0.1     | 0.1     | - | mg/L     | 5.62       | 5.77     | - | 2.63%   | - | - | Pass   |  |  |
| Silver, D                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Silver, T                     | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Sodium, D                     | 0.05    | 0.05    | - | mg/L     | 11.7       | 11.1     | - | 5.26%   | - | - | Pass   |  |  |
| Sodium, T                     | 0.05    | 0.05    | - | mg/L     | 11.4       | 11.4     | - | 0.00%   | - | - | Pass   |  |  |
| Strontium, D                  | 0.0002  | 0.0002  | - | mg/L     | 0.134      | 0.13     | - | 3.03%   | - | - | Pass   |  |  |
| Strontium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.128      | 0.128    | - | 0.00%   | - | - | Pass   |  |  |
| Sulfate as SO4                | 0.3     | 0.3     | - | mg/L     | 36.4       | 37.2     | - | 2.17%   | - | - | Pass   |  |  |
| Sulfur, D                     | 0.5     | 0.5     | - | mg/L     | 13.5       | 13.7     | - | 1.47%   | - | - | Pass   |  |  |
| Sulfur, T                     | 0.5     | 0.5     | - | mg/L     | 14.0       | 14.2     | - | 1.42%   | - | - | Pass   |  |  |
| Tellurium, D                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Tellurium, T                  | 0.0002  | 0.0002  | - | mg/L     | <0.00010   | <0.0001  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, D                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thallium, T                   | 0.00001 | 0.00001 | - | mg/L     | <0.0000050 | <5e-006  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, D                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Thorium, T                    | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, D                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tin, T                        | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Titanium, D                   | 0.0003  | 0.0003  | - | mg/L     | 0.00098    | 0.00097  | - | 1.03%   | - | - | Pass   |  |  |
| Titanium, T                   | 0.0003  | 0.0003  | - | mg/L     | 0.00771    | 0.00716  | - | 7.40%   | - | - | Pass   |  |  |
| Total Dissolved Solids, T     | 20      | 20      | - | mg/L     | 252        | 258      | - | 2.35%   | - | - | Pass   |  |  |
| Total Kjeldahl Nitrogen       | 0.05    | 0.05    | - | mg/L     | 1.01       | 0.961    | - | 4.97%   | - | - | Pass   |  |  |
| Total Organic Carbon, T       | 0.5     | 0.5     | - | mg/L     | 28.1       | 27.5     | - | 2.16%   | - | - | Pass   |  |  |
| Total Suspended Solids        | 3       | 3       | - | mg/L     | 4.5        | 4.1      | - | 9.30%   | - | - | Pass   |  |  |
| Tungsten, D                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Tungsten, T                   | 0.0001  | 0.0001  | - | mg/L     | <0.000050  | <5e-005  | - | 0.00%   | - | - | Pass   |  |  |
| Turbidity                     | 0.1     | 0.1     | - | NTU      | 6.23       | 5.16     | - | 18.79%  | - | - | Pass   |  |  |
| Uranium, D                    | 0.00001 | 0.00001 | - | mg/L     | 0.000620   | 0.000662 | - | 6.55%   | - | - | Pass   |  |  |
| Uranium, T                    | 0.00001 | 0.00001 | - | mg/L     | 0.000642   | 0.000652 | - | 1.55%   | - | - | Pass   |  |  |
| Vanadium, D                   | 0.0005  | 0.0005  | - | mg/L     | <0.00025   | <0.00025 | - | 0.00%   | - | - | Pass   |  |  |
| Vanadium, T                   | 0.0005  | 0.0005  | - | mg/L     | 0.00101    | 0.00105  | - | 3.88%   | - | - | Pass   |  |  |
| Zinc, D                       | 0.001   | 0.001   | - | mg/L     | 0.0014     | 0.001    | - | 33.33%  | - | - | Pass-1 |  |  |
| Zinc, T                       | 0.003   | 0.003   | - | mg/L     | 0.0035     | <0.0015  | - | 80.00%  | - | - | Pass-1 |  |  |
| Zirconium, D                  | 0.0003  | 0.0003  | - | mg/L     | <0.00015   | <0.00015 | - | 0.00%   | - | - | Pass   |  |  |
| Zirconium, T                  | 0.0002  | 0.0002  | - | mg/L     | 0.00036    | 0.00036  | - | 0.00%   | - | - | Pass   |  |  |

**RPD Control Limits**  
Pass - RPD ≤ 20%  
Pass-1 - RPD > 20%, Analysis results < 10 times Detection Limit  
Pass-2 - RPD > 20% and RPD ≤ 20%, Analysis results ≥ 10 times Detection Limit and < 20 times Detection Limit

**Exceeds RPD Control Limits**