Tulsequah Chief Surface Water Monitoring Program 2025 Report

Tulsequah Chief Mine, British Columbia

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Executive Summary

The Tulsequah Chief Mine is located approximately 120 kilometres (km) south of Atlin, British Columbia (BC) and 65 km northeast of Juneau, Alaska within the traditional territory of the Taku River Tlingit First Nation (TRTFN). The Taaltsux̲éi Héen (Tulsequah River) is the primary receiver of mine water discharges from the Tulsequah Chief Mine. The primary risk of the mine to the Taaltsux̲éi Héen is associated with acid rock drainage (ARD) from mine portals and adits, and seepage from exposed waste rock piles (SRK and SNC 2020). TRTFN conducted environmental monitoring throughout the Taaltsux̲éi Héen watershed, including near the Tulsequah Chief Mine, from 2019 to 2023.

In 2020, in response to the identified risks to the aquatic environment of the mainstem and braided channels of the Taaltsux̲éi Héen (AERA; SLR 2017), the Ministry of Energy, Mines and Low Carbon Innovation (EMLI), now the Ministry of Mining and Critical Minerals, retained SLR Consulting (Canada) Ltd (SLR) to develop and implement a Water Quality Monitoring Program (WQMP) for the Tulsequah Chief Mine. The WQMP Workplan was prepared in collaboration with the TRTFN in 2020 and first implemented in 2021. In 2024, environmental monitoring for the mine recommenced, administered by Teck Resources who are undertaking voluntary remediation planning for the Tulsequah Chief Mine. Water sampling in 2024 was completed in accordance with the WQMP, and in conjunction with the Aquatic Effects Monitoring Program (AEMP), which was executed as per Minnow (2023) with some modifications to the study design.

In 2025, SLR was retained by Teck to prepare a Surface Water Monitoring Plan (SWMP; SLR 2025a). This plan provides a framework for the annual collection of surface water and sediment samples and the associated data analysis, data interpretation, and reporting requirements. In 2025, water sampling, hydrological monitoring, and sediment sampling was conducted monthly from June through September across 34 water sampling sites and seven sediment sites in accordance with the SWMP. This document reports on the results for the data collected in 2025 as per the SWMP.

The 2025 SWMP characterized the Tulsequah Chief mine discharges from the 5400 and 5200 Level Adits as ARD, with low pH and alkalinity, and elevated concentrations of sulphate, aluminum, arsenic, cadmium, copper, iron, lead, and zinc. Water samples from upstream and unaffected sites were circumneutral to alkaline, with low conductivity and stable chemistry, while effluent zones displayed extreme variability and persistent acidity. Effluent samples contained dissolved aluminum concentrations as high as 27,700 micrograms per litre and zinc concentrations approaching 96,800 micrograms per litre. The effects of mine site discharge on the Taaltsux̲éi Héen were measurable and extended downstream in the east mainstem channel and the east side-channels up to approximately 2,500 m, depending on the season and Constituent of Potential Concern (COPC). Downstream attenuation was evident, with measurable effects on pH and sulphate extending approximately 750 metres from the mine site, while elevated conductivity and metal concentrations above background levels persisted up to 1,000 to 2,500 metres. Farfield sites (Zone 4), which range from approximately 1,800 – 4,200 m downstream of the mine site discharge, generally met water quality guidelines, indicating that impacts remain localized.

Hydrological measurements confirmed that mine flows are minor compared to mainstem discharge, which exceeded 70 cubic metres per second in July, but these flows are sufficient to elevate COPC concentrations locally. During low-flow winter months, mine flows may comprise a larger proportion of river discharge; however, this contribution has not been quantified.

The 2025 sediment chemistry data indicated that mine site discharges impacted sediment chemistry in the Taaltsux̲éi Héen up to 250 m downstream of the mine site above the Probably Effects Level associated with frequent adverse biological effects. Further downstream, however, sediment quality was measurably improved, with cadmium, copper, lead, and zinc content either below the Interim Sediment Quality Guidelines (ISQG) or comparable with the upstream reference site. Therefore, the downstream distribution of sediment-bound metals in the Taaltsux̲éi Héen was limited.

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Acronyms and Abbreviations

°C	degrees Celsius
µg/L	micrograms per litre
µS/cm	microSiemens per centimetre
ADV	Acoustic Doppler Velocimeter
AEMP	Aquatic Effects Monitoring Program
AERA	Aquatic Ecological Risk Assessment
ARD/ML	acid rock drainage and metal leaching
BLM	Biotic Ligand Model
BC	British Columbia
BC WQG	British Columbia Water Quality Guidelines
BV	Bureau Veritas
CALA	Canadian Association for Laboratory Accreditation
CCME	Canadian Council of Ministers of the Environment
COC	Chain of Custody
COPC	Constituents of Potential Concern
D:T	Dissolved:Total
DOC	dissolved organic carbon
EMLI	Ministry of Energy, Mines and Low Carbon Innovation
g	gram
ISQG	Interim Sediment Quality Guideline
km	kilometre
L	litre
m	metre
m^3/s	cubic metres per second
meq/L	milliequivalents per litre
mg $CaCO_3$/L	milligrams per litre of calcium carbonate equivalent
mg/L	milligrams per litre
mL	millilitre
mm	millimetre
Minnow	Minnow Environmental Inc.
µS/cm	microSiemens/centimetre
MWLRS	Ministry of Water, Land and Resource Stewardship
ORP	Oxidation-reduction potential

°C	degrees Celsius
PEL	Probable Effect Level
PHC	Petroleum Hydrocarbon Compounds
QA/QC	Quality Assurance/Quality Control
RDL	Reporting Detection Limit
Redfern	Redfern Resources Ltd.
RPD	Relative Percent Difference
SLR	SLR Consulting (Canada) Ltd.
SWMP	Surface Water Monitoring Program
TRTFN	Taku River Tlingit First Nation
TDS	Total dissolved solids
TSS	Total suspended solids
WSQG	Working Sediment Quality Guidelines
WQ	Water Quality
WQGs	Water Quality Guidelines
WQMP	Water Quality Monitoring Program
WTP	Water Treatment Plant

1.0 Introduction

1.1 Background

The Tulsequah Chief Mine (the mine) is located approximately 120 kilometres (km) south of Atlin, British Columbia (BC) and 65 km northeast of Juneau, Alaska within the traditional territory of the Taku River Tlingit First Nation (TRTFN). The mine site is located on the east bank of the Taaltsux̲éi Héen (Tulsequah River: Appendix A, Figure A.1), which is a tributary of the T'aakú Héen (Taku River) that discharges to the Pacific Ocean near Juneau, Alaska.

Seasonal cycles of the Taaltsux̲éi Héen watershed consist of a spring freshet in May and June driven by snowmelt; high summer flows through July and August are sustained by glacial meltwater; a gradual decline in flows during late August through November that are increasingly driven by precipitation as contributions of glacial meltwater decrease due to cooler temperatures; and, from November to March/April, a winter low flow period when the watershed is frozen and covered in snow and ice. The Taaltsux̲éi Héen is also subject to one to two annual glacial lake outbursts (jökulhlaups), which typically occur in July/August and result in a rapid rise to peak flows that have the capacity to significantly alter the morphology of the river.

The Taaltsux̲éi Héen valley has been a place of deep cultural and ecological significance for Taku River Tlingit people for millennia. While it is not currently known for large salmon runs, the valley's groundwater channels within the floodplain and numerous clearwater tributaries are supporting spawning adults and rearing juveniles (Sergeant et al. 2023). It is essential to view the Taaltsux̲éi Héen valley not through the lens of its present condition, but also as a dynamic landscape – one that is evolving through glacial retreat, channel stabilization, vegetation succession, and bio-physical processes such as beaver activity (Pitman et al. 2021; Sergeant et al. 2023; Whited et al. 2025). With these changes, the Taaltsux̲éi Héen valley holds the potential to become a salmon stronghold in the future. As such, all activities in the Taaltsux̲éi Héen watershed must be managed and monitored in close collaboration with TRTFN.

The mine was operated by Cominco between 1951 and 1957 as a polymetallic mine that produced silver, gold, copper, cadmium, lead, and zinc. The mine was dormant between 1957 and 1987, at which time Cominco entered a joint venture with Redfern Resources Ltd. (Redfern), who became the sole owner in 1992 (SRK and SNC 2020). Between 1987 and 2009 operational activities consisted of various pre-mine development and exploratory drilling activities. In 2010, the site was acquired by Chieftain Metals Ltd., which undertook exploratory drilling, feasibility studies, and construction of a water treatment facility that functioned briefly in 2012. Chieftain Metals Ltd. did not, however, bring the mine into production. In June 2015 all mine operations ceased, and the mine entered long-term care and maintenance.

The Taaltsux̲éi Héen is the primary receiver of mine water discharges from the mine. The primary risk of the mine to the Taaltsux̲éi Héen is associated with acid rock drainage and metal leaching (ARD/ML) from mine portals and adits, and seepage from exposed waste rock piles (SRK and SNC 2020). Risks to the aquatic environment caused by the mine have been a long-standing concern and were characterized in 2017 through the completion of an Aquatic Ecological Risk Assessment (AERA; SLR 2017). The 2017 AERA evaluated the potential impacts and risks to aquatic receptors within the Taaltsux̲éi Héen in four zones that included the mainstem and braided channels of the Taaltsux̲éi Héen, and several tributaries associated with the mine site. The AERA predicted potentially unacceptable risks to aquatic life for the area immediately adjacent to the mine discharge point to approximately 2.5 km downstream within the mainstem and side channels of the Taaltsux̲éi Héen. The Joint Water Quality Sampling Program for Transboundary Waters, a collaboration between the State of Alaska and the

Province of British Columbia, indicated that concentrations of total and dissolved metals in water and sediment samples generally decreased with distance downstream of the mine, and no exceedances of Alaska Water Quality Guidelines were observed in water samples downstream of the BC-Alaska border (DEC and ENV 2021). TRTFN also conducted environmental monitoring throughout the Taaltsuxéi Héen watershed, including near the Tulsequah Chief Mine, from 2019 to 2023.

In response to the identified risk, the Ministry of Energy, Mines and Low Carbon Innovation (EMLI), now the Ministry of Mining and Critical Minerals, retained SLR Consulting (Canada) Ltd. (SLR) to develop and implement a Water Quality Monitoring Program (WQMP) for the mine. The WQMP Workplan was prepared in collaboration with the TRTFN in 2020 and implemented in 2021 (SLR 2022) and 2022 (SLR 2023). EMLI also retained Minnow Environmental Inc. (Minnow) to develop an Aquatic Effects Monitoring Program (AEMP) for the mine, a draft version of which was provided for consultation in 2022 and finalized in 2023 (Minnow 2023). In 2024, environmental monitoring for the mine recommenced, administered by Teck Resources who are undertaking voluntary closure and reclamation planning for the Tulsequah Chief Mine. Water sampling in 2024 was carried out in accordance with the WQMP, and in conjunction with the AEMP, which was executed as per Minnow (2023) with some modifications to the study design. In 2025, SLR was retained by Teck to prepare a Surface Water Monitoring Plan (SWMP; SLR 2025a), to provide a framework for the annual collection of surface water and sediment samples and the associated data analysis, data interpretation, and reporting requirements. Water sampling, hydrological monitoring, and sediment sampling was conducted in 2025 in accordance with the SWMP, except for May 2025 where no sampling occurred due to site access challenges. This document reports on the results for the data collected in 2025 as per the SWMP.

1.2 Purpose and Objectives

The primary purpose of the 2025 Surface Water Monitoring Program (including sediment monitoring) was to support characterization of existing conditions.

The primary objectives of the 2025 program were:

- To assess water quality in the Taaltsuxéi Héen mainstem, side channels and associated tributaries, and to monitor and assess the quality of mine site contact water.
- To quantify flow rates from the mine site and in discrete braids of the Taaltsuxéi Héen.
- To assess sediment quality in the Taaltsuxéi Héen mainstem, side channels and associated tributaries.

2.0 Study Area

The Taaltsuxéi Héen is the primary receiver of mine water discharges from the Tulsequah Chief Mine. The Taaltsuxéi Héen is a glacier-fed, heavily braided river flowing south from the foot of the Tulsequah Glacier approximately 25 km until discharging into the T'aakú Héeni (Appendix A, Figure A.1). Flow in the river is dynamic and subject to seasonal alterations and abrupt increases due to glacial lake outburst floods (jökulhlaups), both of which have the capacity to alter the morphology of the Taaltsuxéi Héen.

The complexity and transient structure of the Taaltsuxéi Héen makes it impractical to establish fixed monitoring sites in the river. Instead, the SWMP uses the zonal approach based on mining inputs and variations in fish habitat (Appendix A, Figure A.2). Monitoring sites are then strategically placed within each of the zones. This method is more suited to the river's dynamic conditions, as static point locations may shift or become non-representative over time.

Zones 1 through 4, along with the Effluent Zone, were first introduced in the 2016 AERA (SLR 2017) and later incorporated into the conceptual Closure and Reclamation Plan (SRK and SNC 2020) commissioned by EMLI. These zones were carried forward in design of the WQMP (SLR 2021) and AEMP (Minnow 2023) in the implementation of the WQMP in in 2021 (SLR 2022) and 2022 (SLR 2023). A separate grouping for tributaries was adopted in 2025 (SLR 2025a) to allow for clearer depiction of the various water inputs to the Taaltsuxéi Héen.

Monitoring sites in each of the zones have been selected to represent various habitat types, comprising the mainstem of the Taaltsuxéi Héen, side channels, tributaries, and mine site drainage locations. A description of each zone is detailed below.

2.1 Zone 1 – Reference Zone

- Comprises the reach of the Taaltsuxéi Héen immediately upstream of the central workings and mine infrastructure and effluent discharges (Appendix A, Figure A.3). While a camp, access road, airstrip, borrow pit, and fuel tanks are in this zone, sampling has not shown any chemical inputs to this zone from these particular mine facilities. It is therefore an appropriate reference for characterizing the effect on surface water chemistry from mine discharge point sources (e.g., from adits) originating in the effluent zone downstream. Contains high-quality fish habitat, particularly throughout Shazah Slough, Shazah Wetland, and on the west side of the Taaltsuxéi Héen floodplain.
- Contains five surface water sampling sites, and two sediment sampling sites, representative of conditions that are not impacted by the mine effluent discharge (Table 2.1). Approximately 4.3 km in length from monitoring site TUL-00/W10, which is the furthest upstream site, to the upper Zone 2 boundary.
- Tributary sites in Shazah Creek (W27, SW16-1) and Dawn Creek (SW24-2) that fall within Zone 1 are listed separately in Section 2.6.

2.2 Zone 2 – Zone of Discharge

- Comprises the reach of the Taaltsuxéi Héen that is adjacent to, and just downstream of the central mine workings and infrastructure (Appendix A, Figure A.4); including the historical water treatment plant (not functioning), mine rock piles, portals, and exfiltration pond. The mine water discharges into this zone.
- Contains potential for high-quality fish habitat on the west side of the Taaltsuxéi Héen floodplain.
- Contains six surface water sampling sites, and two sediment sampling sites, established primarily to characterize the effect of exposure to mine site discharges on the receiving environment in the Taaltsuxéi Héen (Table 2.1).
- Sample collection in 2025 for water quality and sediment at site SW24-11 was moved approximately 240 m downstream due to changing channel characteristics. The 2025 sampling site was subsequently moved downstream of the Zone 2 boundary into Zone 3. For the purposes of this report, site SW24-11 will be reported in Zone 2.

- Approximately 0.8 km in length from the lower boundary of Zone 1 to the upper boundary of Zone 3.
- Tributary sites in Camp Creek (CC-01, CC-02, CC-04) that fall within Zone 2 are listed separately in Section 2.6.

2.3 Zone 3 – Nearfield Zone

- Comprises the reach of the Taaltsuxéi Héen starting approximately 0.5 km downstream of the central mine workings (Appendix A, Figure A.5).
- This zone was identified as having the most significant receptors in form high quality side-channel fish habitat in the impacted zones.
- Contains three surface water sampling sites and two sediment sampling sites, established primarily to characterize the effect of exposure to mine site discharges in the nearfield environment (Table 2.1).
- Approximately 1.4 km in length from the lower boundary of Zone 2 to the upper boundary of Zone 4.
- The tributary site in Rogers Creek (SW21-5) that falls within Zone 3 is listed separately in Section 2.6.

2.4 Zone 4 – Farfield Zone

- Comprises the reach of the Taaltsuxéi Héen starting approximately 2.5 km downstream of the central workings and mine infrastructure (Appendix A, Figure A.6) and associated discharge and is characterized by high-quality fish habitat for both resident and migratory fish.
- Contains six surface water sampling sites and one sediment sampling site, established primarily to characterize the effect of exposure to mine site discharges in the far-field environment (Table 2.1).
- Approximately 2.5 km in length from the upstream boundary of Zone 4 to the most downstream monitoring site at SW24-7. Approximately 4.2 km in length from the mine discharge to the furthest downstream monitoring site at SW24-7.
- The tributary site in Limestone Creek (SW24-5) that falls within Zone 4 is listed separately in Section 2.6.
- Roger's Slough is adjacent to this zone on the east side of the Taaltsuxéi Héen and is an area of high-value aquatic and terrestrial habitat and ecological significance.

2.5 Effluent Zone

- Comprises mine discharges from the central mine workings associated with the 5200 Level Adit, 5400 Level Adit, 5900 Level Adit, 6400 Level Adit, from the settling pond of the old water treatment plant (WTP Pond), and from the exfiltration pond (SE2, Appendix A, Figure A.4 Figure A.7). The WTP is not active.
- In August, a seep at the base of the waste rock downslope of the 6400 Level Adit was identified and sampled. This seepage did not appear to originate from the 6400 Level Adit but rather from the drainage to the south of the adit. Sampling at this site was considered investigative and not carried forward into the September program.

- Surface flows from mine discharges vary seasonally and reach the Taaltsuxéi Héen both directly and indirectly via Camp Creek. The 6400 Level seep flows infrequently and contributes to Camp Creek, while the 5900 Level Adit also enters Camp Creek and peaks during freshet as ice within the adit melts. The 5400 and 5200 Level adits flow continuously through the summer into the exfiltration pond (SE2) and subsequently into the Taaltsuxéi Héen. These adits are also reported to flow during winter, however, winter flows have not been quantified. The WTP pond does not receive direct surface inflow and does not discharge into the Taaltsuxéi Héen.
- Contains five established water sampling locations (Table 2.1) that all represent inputs of mine discharges to Zone 2, either indirectly via Camp Creek, or directly via overland or subsurface flow paths. Of note is that this zone previously included a sampling location "5400 Clean Water Pipe". This pipe was defective and was removed in July 2025 and is therefore no longer part of the sampling program.

2.6 Tributaries

- Shazah Creek (Appendix A, Figure A.2 and A.3)
  - Flows from the upper slopes of Mount Eaton at the north end of the mountain (approximately 12.5 km) into Shazah Slough and Shazah Wetland and eventually to the Taaltsuxéi Héen just south of the airstrip, in Zone 1. The Shazah wetland/slough complex has been characterized as high-quality fish habitat (Gartner Lee 2007).
  - There are two surface water sampling sites on Shazah Creek (Appendix A, Figure A.5, Table 2.1): Site W27 in Shazah Creek is upstream of the mine site and represents local background conditions, while site SW16-1 is at the mouth of Shazah Creek downstream of the access road, airstrip, and borrow pit. The sites on Shazah Creek characterize the input from this tributary, in terms of water chemistry, to Zone 1.
- Dawn Creek (Appendix A, Figure A.2 and Figure A.4)
  - An eastern tributary of the Taaltsuxéi Héen upstream of the mine site that flows from the central upper slopes of Mount Eaton (approximately 2.5 km) into Zone 1. Dawn Creek does not receive inputs of mine discharge, and accordingly, the Zone 1 boundary is downstream of the confluence of Dawn Creek with the Taaltsuxéi Héen.
  - Surface water sampling site SW24-2 on Dawn Creek (Table 2.1), allows for characterization of the inputs from this tributary to Zone 1.
- Camp Creek (Appendix A, Figure A.2 and Figure A.4)
  - An eastern tributary of the Taaltsuxéi Héen that flows from the central upper slopes of Mount Eaton (approximately 2.5 km), past the upper workings, connects with an unnamed creek, cascades down a steep slope adjacent to the 5900 level and lower workings (5400 Level Adit and 5200 Level Adit), and discharges into the Taaltsuxéi Héen in Zone 2. The upper-level workings (6400 Level Adit and 6500 Level Adit) are also known to discharge water overland into Camp Creek (SRK and SNC 2020).
  - Contains three surface water sampling sites: CC-04 in Camp Creek is upstream of the mine workings, and sites CC-01 and CC-02 are downstream impacted sites, which characterise the input from Camp Creek into the Taaltsuxéi Héen.

- Rogers Creek (Appendix A, Figure A.2 and Figure A.5)
    - An eastern tributary that flows from the upper slopes on the south end of Mount Eaton (approximately 4.25 km), cascades down a steep slope with many waterfalls, and discharges into the Taaltsuxéi Héen in Zone 3. Fish-bearing habitat in Rogers Creek is unlikely to extend beyond 500 m upstream of the Taaltsuxéi Héen because of potential gradient barriers to fish movement in the creek.
    - Surface water sampling site SW21-5 on Rogers Creek (Table 2.1), allows for characterization of the inputs from this tributary to Zone 3.
- Limestone Creek (Appendix A, Figure A.2 and Figure A.6)
    - An eastern tributary, that flows from the upper slopes on the south end of Mount Eaton (approximately 3 km), into Zone 4.
    - Surface water sampling site SW24-5 on Limestone Creek (Table 2.1), allows for the characterization of the inputs from this tributary to Zone 4.

Note that the New Polaris Mine, with mineral leases 100% held by Canagold Resources Ltd. at the time of writing, is located approximately 4.5 km downstream of the Tulsequah Chief Mine underground workings, on the west bank of the Taaltsuxéi Héen. Whitewater Creek drains the New Polaris Mine site and flows into the Taaltsuxéi Héen downstream. The existing and proposed infrastructure of the New Polaris Mine is located roughly parallel to the furthest downstream far-field sampling locations for the Tulsequah Chief Mine (W32/TUL-15 and SW24-7) on the east side of the Taaltsuxéi Héen. Although the two mines are situated on the opposite sides of the river, the Tulsequah Chief SWMP study area is currently influenced by the New Polaris Mine. Conversely, the Tulsequah Chief Mine may affect background conditions relevant to the New Polaris Mine, and future developments at the New Polaris Mine will need to considered in the implementation of the Tulsequah Chief Mine SWMP.

2.7 Sampling Summary

The SWMP (SLR 2025a) includes 34 water sampling sites and 7 sediment sampling sites. Sediment sampling is also a component of the AEMP (Minnow 2023), which was first implemented in 2024 based on Minnow's study design. That year, the AEMP included concurrent biological and sediment sampling at 9 sites, 7 of which were incorporated into the SWMP for ongoing sampling. In AEMP years, the sediment sampling is conducted once, with data shared between both programs.

Following finalization of the SWMP, a naming convention was introduced for AEMP sampling sites, as documented in the 2024 Water Quality and AEMP report (SLR 2025b). Surface water monitoring sites associated with AEMP locations—whether co-located or not—are labeled with the suffix "-AEMP" followed by the two-digit sampling year, i.e., -AEMP24, -AEMP26, -AEMP28 and so forth. This convention allows differentiation between AEMP and water sampling sites when co-location is not possible due to habitat constraints. In 2025, all sediment sampling locations were co-located with a water sampling location, except for TUL-06 where sediment samples were collected 750 m upstream from the water sampling location at the 2024 AEMP site. For most locations, surface water samples were collected in June, July, August, and September 2025; however, some locations could not be accessed during every sampling event. Changes to the site selection from the SWMP (SLR 2025a) are summarized in Table 2.2.

The dynamic nature and annual potential for major channel rearrangements of the Taaltsuxéi Héen require the distinction of various channel types during the sampling program. In 2025, the following channel types were identified and are noted in Table 2.1:

- **Central Mainstem:**

  Refers to sites in either a single defined mainstem (e.g., TUL-00/W10), or in section with more than two mainstem braids and a defined central braid (e.g., W32/TUL-15).

- **East Mainstem:**

  Refers to sites in defined major mainstem braids on the east side of the floodplain.

- **East Mainstem/ East Side-Channel:**

  Refers to sites in on the east side of the floodplain that may be major mainstem braids or side channels, depending on flow conditions.

- **East Side Channel:**

  Refers to sites on the east side of the floodplain that are side channels during most flow conditions.

- **East Tributary:**

  Refers to sites in east tributaries.

- **West Mainstem:**

  Refers to sites in defined major mainstem braids on the west side of the floodplain.

- **West Side-channel:**

  Refers to sites on the west side of the floodplain that are side channels during most flow conditions.

- **West Clear Water Channel:**

  Refers to clear water channels on the west side of the floodplain.

- **Mine Discharge:**

  Refers to sites directly associated with discharge from mine infrastructure.

- **Seepage:**

  Refers to sites indirectly associated with mine infrastructure.

Satellite imagery in map figures for this report (Appendix A) was captured in July 2025, following the annual jökulhlaup on June 30th. Field observations indicated no substantial changes to the river channels or braiding caused by the jökulhlaup, therefore the imagery accurately represents river channel structure for all four sampling events in 2025. A photolog of all sampling sites by field sampling month is shown in Appendix B.

Table 2.1: 2025 Surface Water and Sediment Sampling Overview

Zone	Location ID	Sample Type	Watercourse	Channel Type	June 2025		July 2025		August 2025		September 2025	
					UTM E	UTM N	UTM E	UTM N	UTM E	UTM N	UTM E	UTM N
Zone 1	TUL-00/W10	WQ	Taaltsuxéi Héen	Central Mainstem	578097	6514916	578093	6514925	578086	6514897	578106	6514939
	TUL-00	Sediment	Taaltsuxéi Héen	Central Mainstem	578097	6514916	---	---	---	---	578106	6514939
	SW21-2	WQ	Taaltsuxéi Héen	West Clear Water Channel	577902	6512998	577895	6513003	577904	6513000	577895	6512998
	TUL-03	WQ	Taaltsuxéi Héen	East Mainstem	579677	6513059	579538	6513132	579543	6513123	579638	6513090
	TUL-06/ SW16-3	WQ	Taaltsuxéi Héen	West Side-channel	578382	6512745	578960	6512267	578959	6512301	578958	6512273
	TUL-06/SW 16-3	Sediment	Taaltsuxéi Héen	West Side-channel	578382	6512745	---	---	---	---	578400	6512721
	TUL-05	WQ	Taaltsuxéi Héen	West Mainstem	580353	6511878	580354	6511989	580214	6512141	580356	6511882
Tributary (Zone 1)	W27	WQ	Shazah Creek	East Tributary	579898	6513881	579898	6513878	579908	6513898	579943	6513876
	SW16-1	WQ	Shazah Creek	East Tributary	580212	6512585	580229	6512497	---	---	580224	6512438
	SW24-2	WQ	Dawn Creek	East Tributary	581036	6511968	581040	6511971	581040	6511975	581039	6511967
Effluent	6400 Seep	WQ	Seepage	Seepage	---	---	---	---	581675	6511916	---	---
	5900 Level Adit	WQ	Underground Workings	Mine Discharge	581318	6511683	581316	6511688	581318	6511685	---	---
	5400 Level Adit	WQ	Underground Workings	Mine Discharge	581051	6511542	581053	6511542	581052	6511539	581051	6511537
	5400 Clean Water Pipe	WQ	Underground Workings	Mine Discharge	581047	6511531	---	---	---	---	---	---
	5200 Level Adit	WQ	Underground Workings	Mine Discharge	580964	6511315	580959	6511315	580964	6511313	580967	6511314
	SE2	WQ	Exfiltration Pond	Mine Discharge	580908	6511364	580911	6511360	580904	6511366	580908	6511363
	WTP Pond	WQ	Pond	Mine Discharge	580852	6511461	580854	6511458	580852	6511458	580853	6511457

Zone	Location ID	Sample Type	Watercourse	Channel Type	June 2025		July 2025		August 2025		September 2025	
					UTM E	UTM N	UTM E	UTM N	UTM E	UTM N	UTM E	UTM N
Zone 2	SW24-1	WQ	Taaltsuxéi Héen	West Mainstem	580639	6511335	580623	6511404	580675	6511384	580589	6511399
	SW24-11	WQ	Taaltsuxéi Héen	Central Mainstem	580803	6510747	580814	6510660	580822	6510659	580809	6510624
	SW24-11	Sediment	Taaltsuxéi Héen	Central Mainstem	580803	6510747	---	---	---	---	580809	6510624
	W11	WQ	Taaltsuxéi Héen	East Mainstem / East Side-channel	581067	6511022	581082	6511026	581080	6511023	581065	6511045
	W11	Sediment	Taaltsuxéi Héen	East Mainstem / East Side-channel	581067	6511022	---	---	---	---	581065	6511045
	W44	WQ	Taaltsuxéi Héen	West Clear Water Channel	580281	6511081	580246	6511144	580244	6511138	580241	6511145
	W45	WQ	Taaltsuxéi Héen	West Clear Water Channel	579768	6510997	579842	6510888	579842	6510889	579770	6510991
	W46/ SW21-4	WQ	Taaltsuxéi Héen	East Mainstem	580734	6511410	580741	6511528	580710	6511413	580742	6511533
Tributary (Zone 2)	CC-04	WQ	Camp Creek	East Tributary	581673	6511995	581671	6512000	581671	6511972	---	---
	CC-02	WQ	Camp Creek	East Tributary	581075	6511728	581072	6511728	581071	6511731	581061	6511730
	CC-01	WQ	Camp Creek	East Tributary	580857	6511683	---	---	---	---	---	---

Zone	Location ID	Sample Type	Watercourse	Channel Type	June 2025		July 2025		August 2025		September 2025	
					UTM E	UTM N	UTM E	UTM N	UTM E	UTM N	UTM E	UTM N
Zone 3	SW16-8	WQ	Taaltsuxéi Héen	East Mainstem / East Side-channel	581401	6510570	581403	6510571	581400	6510573	581409	6510573
	SW16-8	Sediment	Taaltsuxéi Héen	East Mainstem / East Side-channel	581401	6510570	---	---	---	---	581409	6510573
	SW24-4	WQ	Taaltsuxéi Héen	East Mainstem / East Side-channel	580991	6510266	581052	6510261	580994	6510392	581022	6510318
	TUL-09/W51	WQ	Taaltsuxéi Héen	West Mainstem	580994	6509712	580852	6509764	580877	6509635	580914	6509664
	TUL-09/W51	Sediment	Taaltsuxéi Héen	West Mainstem	580994	6509712	---	---	---	---	580914	6509664
Tributary (Zone 3)	SW21-5	WQ	Rogers Creek	East Tributary	581471	6510272	581566	6510392	581568	6510397	581567	6510399
Zone 4	TUL-12	WQ	Taaltsuxéi Héen	East Side Channel	581389	6509238	581385	6509320	581398	6509334	581392	6509225
	SW24-6	WQ	Taaltsuxéi Héen	West Mainstem	580479	6507878	580473	6507799	580472	6507802	580465	6507799
	SW24-7	WQ	Taaltsuxéi Héen	East Mainstem	580977	6507361	580957	6507275	580903	6507425	580958	6507255
	SW24-7	Sediment	Taaltsuxéi Héen	East Mainstem	580977	6507361	---	---	---	---	580958	6507255
	SW24-8	WQ	Taaltsuxéi Héen	West Clear Water Channel	580650	6509209	580667	6509142	580650	6509261	580651	6509262
	SW24-10	WQ	Taaltsuxéi Héen	East Mainstem	581361	6509120	581319	6509333	581342	6509342	581362	6509124
	W32/TUL-15	WQ	Taaltsuxéi Héen	Central Mainstem	580828	6507400	580812	6507316	580834	6507401	580810	6507312
Tributary (Zone 4)	SW24-5	WQ	Limestone Creek	East Tributary	581435	6508665	---	---	---	---	---	---

Notes: WQ = Water Quality
--- = not sampled

Table 2.2: Rationale for Adjustments to 2025 Sampling Sites

Zone	Site ID	Watercourse	Channel Type	Rationale
Zone 1	TUL-06/ SW16-3	Taaltsuxéi Héen	West Side-channel	The surface water sample collected in June was co-located with the sediment sample in a braided section of the side channel. Subsequent surface water samples were collected approximately 750 m downstream, where the flow becomes more laminar and suitable for area-velocity measurement.
Tributary (Zone 1)	SW16-1	Shazah Creek	East Tributary	Sampling was discontinued after the June 2025 due to the inconsistent mixing of Shazah Creek and the Taaltsuxéi Héen at this location. Site W27 served as a Shazah Creek reference site instead.
Effluent	6400 Seep	Seepage	Seepage	In August, a seep at the base of the waste rock downslope of the 6400 Level Adit was identified and sampled. The seepage did not appear to originate from the 6400 Level Adit but rather from the toe of the waste rock pile to the south of the adit. Sampling at this site was considered investigative and not carried forward into the September program.
Effluent	5900 Level Adit	Underground Workings	Mine Discharge	Site could not be accessed in September due to fog in the valley.
Effluent	5400 “Clean Water” Pipe	Underground Workings	Mine Discharge	The pipe, originally intended to intercept seepage from the underground workings, was removed from 5400 Level Adit during rock scaling work after the June 2025 sampling event; the discharge from the pipe could no longer be sampled.
Tributary (Zone 2)	CC-01	Camp Creek	East Tributary	Site was no longer accessible after the annual jökulhlaup in June. This location was not visited in July, August, or September.
Tributary (Zone 2)	CC-04	Camp Creek	East Tributary	Site could not be accessed in September due to fog in the valley.
Zone 2	SW24-11	Taaltsuxéi Héen	Central Mainstem	Sample collection for water quality and sediment was moved approximately 240 m downstream from the 2024 waypoints due to changing channel characteristics, hence this site previously within Zone 2 moved across the boundary line into Zone 3. For the purposes of this report, site SW24-11 was reported in Zone 2.

Zone	Site ID	Watercourse	Channel Type	Rationale
Tributary (Zone 3)	SW21-5	Rogers Creek	East Tributary	Due to safety concerns during high flows, June flow measurement and water sample was collected across two channels and further downstream than during subsequent sampling events during lower flows.
Zone 4	SW24-10	Taaltsuxéi Héen	East Mainstem	Helicopter landing site was shared between SW24-10 and TUL-12. As a result, minor site drift (<200 m) occurred between monthly sampling events because landing location was chosen to prioritize availability of safe and practical water access for flow measurements at site TUL-12.
Tributary (Zone 4)	SW24-5	Limestone Creek	East Tributary	Site was deemed unsafe due to steep access on unstable riprap. Sampling was discontinued after the June 2025 sampling event.

3.0 Methodology

3.1 Surface Water

3.1.1 Surface Water Sample and Data Collection

All grab samples were collected at representative locations just under the water surface with the bottle mouth facing upstream in accordance with the water sampling guidance in the British Columbia Field Sampling Manual (ENV 2024).

Surface water samples for general chemistry were collected in pre-cleaned 1 litre (L) plastic bottles supplied by the analytical laboratory. Samples for total and dissolved metals were collected in 50 millilitre (mL) acid-washed plastic tubes supplied by the laboratory. Updated laboratory protocols no longer require field-filtration and preservation of total and dissolved metals samples. Samples for other dissolved analytes were filtered in the field using 0.45-micron disposable syringe-tip filters and collected in laboratory-supplied bottles pre-charged with acid. Samples for mercury analysis were collected in 40 mL glass vials pre-charged with hydrochloric acid, and samples for nutrient analysis were collected in bottles pre-charged with sulphuric acid.

Once samples were collected and labeled, they were immediately stored in coolers with ice packs. Samples were stored at temperatures of 4 degrees Celsius (°C) or lower throughout the field program and shipped to Bureau Veritas (BV), a Canadian Association for Laboratory Accreditation (CALA) certified laboratory. The chain of custody documents for the laboratory submissions are included in Appendix C1.

Field measurements using a YSI ProDSS meter comprised pH, temperature, dissolved oxygen, turbidity, specific electrical conductivity, and oxidation-reduction potential (ORP). Temperature was measured with an accuracy of ± 0.2°C. Specific conductivity was measured with an accuracy of ± 5% of reading or 0.001 milliSiemens per centimetre (mS/cm) (whichever was greater). Dissolved oxygen was measured with an accuracy of ± 1% of the reading. The turbidity probe measured with an accuracy of 0.3 or ± 2% of reading (whichever was greater). The pH

probe measured with an accuracy of ± 0.1 pH units. All field parameters and relevant notes were recorded using a field tablet with Survey123.

The YSI ProDSS meter was calibrated daily against standard solutions for conductivity and pH. Air-saturation calibration was used for the dissolved oxygen probe. Calibration records are included in Appendix C3.

3.1.2 Laboratory Analysis

Surface water samples were analyzed by BV for pH, specific conductivity, hardness, alkalinity, sulphate, total suspended solids (TSS), major cations, and the full suite of total and dissolved metals as specified in ENV (2016) (Table 3.1). The Certificates of Analysis are compiled in Appendix C1, and the surface water data are tabulated and contained within Appendix C2. All surface water chemistry data were entered into the EQuIS data management system.

Table 3.1: Surface Water Analytes

Analytes	RDL	Units	Analytes	RDL	Units
Physical Analytes			**Dissolved and Total Metals**		
pH	N/A	pH units	Aluminum (Al)	0.5	µg/L
Specific Conductance	2	mS/cm	Antimony (Sb)	0.02	µg/L
Total Hardness (as CaCO3)	0.5	mg/L	Arsenic (As)	0.02	µg/L
Total Dissolved Solids (TDS)	1	mg/L	Barium (Ba)	0.02	µg/L
Total Suspended Solids (TSS)	1.0	mg/L	Beryllium (Be)	0.01	µg/L
Turbidity	0.1	NTU	Bismuth (Bi)	0.005	µg/L
Major Anions			Boron (B)	10	µg/L
Alkalinity (Total as CaCO3)	1.0	mg/L	Cadmium (Cd)	0.005	µg/L
Carbonate (CO3)	1.0	mg/L	Chromium (Cr)	0.1	µg/L
Bicarbonate (HCO3)	1.0	mg/L	Cobalt (Co)	0.005	µg/L
Hydroxide (OH)	1.0	mg/L	Copper (Cu)	0.05	µg/L
Chloride (Cl)	1.0	mg/L	Iron (Fe)	1	µg/L
Fluoride (F)	0.05	mg/L	Lead (Pb)	0.005	µg/L
Bromide (Br)	0.05	mg/L	Lithium (Li)	0.50	µg/L
Sulphate (SO4)	1.0	mg/L	Manganese (Mn)	0.05	µg/L
Nutrients			Mercury (Hg)	0.0019	µg/L
Nitrate (N-NO3)	0.02	mg/L	Molybdenum (Mo)	0.050	µg/L
Nitrite (N-NO2)	0.005	mg/L	Nickel (Ni)	0.02	µg/L
Ammonia (N-NH3)	0.015	mg/L	Phosphorus (P)	2	µg/L
Total Nitrogen (TN)	0.02	mg/L	Selenium (Se)	0.04	µg/L
Orthophosphate (PO4)	0.0030	mg/L	Silicon (Si)	50	µg/L
Total Phosphorus (TP)	0.0030	mg/L	Silver (Ag)	0.005	µg/L

Analytes	RDL	Units	Analytes	RDL	Units
Organic Compounds			Strontium (Sr)	0.05	µg/L
Total Organic Carbon (TOC)	0.5	mg/L	Thallium (Tl)	0.002	µg/L
Dissolved Organic Carbon (DOC)	0.5	mg/L	Tin (Sn)	0.2	µg/L
Major Cations			Titanium (Ti)	0.5	µg/L
Calcium (Ca)	0.050	mg/L	Uranium (U)	0.002	µg/L
Magnesium (Mg)	0.050	mg/L	Vanadium (V)	0.2	µg/L
Potassium (K)	0.050	mg/L	Zinc (Zn)	0.1	µg/L
Sodium (Na)	0.050	mg/L	Zirconium (Zr)	0.10	µg/L
Notes: Source: BV 2025 RDL = Reportable Detection Limits					

3.1.3 Quality Assurance and Quality Control

3.1.3.1 Field QA/QC

The field component of the quality assurance/quality control program (QA/QC) comprised use of standard surface water sampling protocols to minimize the potential for cross-contamination between samples, including the use of new nitrile gloves for each sample, use of laboratory-supplied sample containers, and triple-rinsing of the swing sampler at each sampling location.

The field QA/QC also comprised the collection and analysis of one duplicate sample for every ten surface water samples, one travel blank, and one field blank per day or per zone. The travel blank contained laboratory-supplied deionized water and was transported and stored with the sample bottles throughout the program. The field blanks were filled with deionized water in the field and exposed to site conditions for the same duration as the collected surface water samples.

3.1.3.2 Laboratory QA/QC

Surface water samples submitted to BV were subjected to QA/QC procedures specific to the laboratory and in compliance with the requirements in the BC Environmental Laboratory Manual (ENV 2023).

Laboratory QA/QC comprised internal/surrogate standards, replicates and duplicates, method blanks, and method spikes (Appendix C1) in comparison with established Data Quality Objectives. Based on the laboratory QA/QC results, no issues were identified that were considered to compromise the overall reliability of the surface water data.

3.1.3.3 Travel and Field Blanks QA/QC

Travel blank and field blank samples were used to assess potential sources of contamination associated with the sample containers, preservatives, filters, sample handling and transportation.

Analytical results for travel blank and field blank samples were assessed against the respective Reportable Detection Limit (RDL) for each analyte. Results will be considered adequate if the detects in blanks did not exceed five times the RDL (ENV 2023). QA/QC results are included in

Appendix C3. Out of 1,134 analysed field blank parameters analysed throughout the 2025 monitoring program, three parameters exceeded the RDL by more than five times. None of the trip blanks exceeded five times the RDL. The field and trip blank surface water data are not indicative of procedural issues for this sampling program and overall support data validity.

3.1.3.4 Dissolved vs. Total Metal Concentrations

A comparison between total metal and dissolved metal concentrations was completed. Total metals include both dissolved metals and metals bound to particulates in the water column, so total concentrations are expected to be equal to or greater than dissolved metal concentrations. Samples where dissolved metal concentrations exceeded total metal concentrations by more than 30% and both concentrations were at least two times the RDL are identified in Appendix C3 (ENV 2023).

Out of 2,676 calculated Dissolved:Total (D:T) metal ratios, 20 cases met these criteria. Of these, 12 were samples collected in the effluent zone in 2025. On August 16, such instances were observed across various sites. No consistent pattern was identified among specific metals; elevated D:T ratios appeared sporadically.

It is important to note that samples for both dissolved and total metals analyses were submitted to the laboratory unfiltered. As a result, discrepancies in D:T ratios may partly reflect variability between the separate sample bottles rather than field-related contamination.

3.1.3.5 Relative Percent Difference

Relative Percent Difference (RPD) was calculated for duplicate samples in Appendix C3 as follows:

$$\boldsymbol{RPD}\ (\%) = \frac{\mathbf{2}*(|\boldsymbol{X_1}-\boldsymbol{X_2}|)}{(\boldsymbol{X_1}+\boldsymbol{X_2})} * \mathbf{100}$$

where:

X_1 = concentration of an analyte in the test sample

X_2 = concentration of the same analyte in the duplicate sample.

Provincial guidance in British Columbia states that if reported results are equal to or greater than five times the RDL, then RPD values greater than 20% indicate a possible problem and RPD values greater than 50% indicate a definite problem.

There were 89 out of 728 (12%) concentrations with greater than five times the RDL and a RPD greater than 20%, and 35 (5%) concentrations with RPD greater that 50%. The majority of RPD greater than 20% occurred at the sampling locations SW21-2 (n=20, September), SW24-1 (n=9, August), SW24-11 (n=11, August), SW16-1 (n=20, June). SW21-2 is a large clear water channel on the west side of the Taaltsuxéi Héen valley and may have been subject to varying mixing conditions during heavy rain in September. SW24-1 and SW24-11 are both Taaltsuxéi Héen mainstem sites with high turbidity. SW16-1 exhibits poor mixing of water from the Taaltsuxéi Héen with Shazah Creek.

Although the RPD values for duplicate analyses in the Taaltsuxéi Héen are elevated, this is not unexpected given the river's braided channel structure and limited mixing.

3.1.4 Data Analysis

The data analysis provided in this report focuses on the characterization of spatial trends in the samples collected in 2025 only, where sampling sites within the watershed were plotted and compared. Spatial trends refer to variations in water chemistry observed across different sampling locations. Where results were below the RDL, a value equal to 0.5 times the RDL was used in calculations, including those presented in summary statistics provided in Appendix C4, and figures.

The sites TUL-03, WTP Pond, SE2, 5200 and 5400 Level Adits were also sampled for petroleum hydrocarbon compounds (PHC) during the June and July sampling events. Review of the data following monthly sampling indicated that there were no detections of PHC at the selected sites and PHC sampling and analysis was discontinued after two subsequent rounds of non-detect samples. While results are included in Appendix C1, PHC are not discussed within this report.

3.1.4.1 Surface Water Characterization

Surface water was characterized for pH, conductivity, and major cations and anions. Data is provided in Appendix C2.

3.1.4.2 Surface Water Quality

All surface water chemistry data were preferentially compared with the most up-to-date long-term (chronic) approved (MWLRS 2025a) and Working (MWLRS 2025b) British Columbia Water Quality Guidelines (BCWQG) for the Protection of Aquatic Life. Screened data tables are provided in Appendix C2 and exceedances are summarized in Section 4.1.2.

A focussed analysis and assessment of water quality was completed (SLR 2022, 2023a, 2023b) for the previously identified eight Constituents of Potential Concern (COPC, Table 3.2): pH, sulphate, aluminum, arsenic, cadmium, copper, iron, manganese, lead, and zinc. These eight COPCs have regularly exceeded guidelines, and their prominence in the study area reflects the mineral deposit of the polymetallic Tulsequah Chief Mine that produced silver, gold, copper, cadmium, lead, and zinc. Both pH and sulphate are discussed in the surface water characterization in Section 4.1.1.

All COPCs (except for dissolved iron for which only short term BCWQG were available) were compared with long term (chronic) WQGs as they are more conservative than the short term WQGs. For dissolved aluminum, the superseded BCWQG was used because the current BCWQG is only available for total aluminum. Section 4.1.2.1 explains why the use of total aluminum BCWQG was not suitable in the Taaltsuxéi Héen watershed. For dissolved manganese, no BCWQG were available; therefore, the Canadian Council for Ministers of the Environment (CCME) Long Term WQGs were used (Table 3.2).

Table 3.2: Water Quality Guidelines for Constituents of Potential Concern

COPC	Application	Source	Reference
Dissolved Aluminum	Long Term Chronic	BCWQG	*----
Total Arsenic	Long Term Chronic	BCWQG	MWLRS 2025a, ENV 2021
Dissolved Cadmium	Long Term Chronic	BCWQG	MWLRS 2025a, ENV 2015a
Dissolved Copper	Long Term Chronic	BCWQG	MWLRS 2025a, ENV 2019a
Dissolved Iron	Short Term	BCWQG	MWLRS 2025a, ENV 2008
Dissolved Manganese	Long Term	CCME	CCME 2019
Dissolved Lead	Long Term Chronic	BCWQG	MWLRS 2025a, MWLRS 2024
Dissolved Zinc	Long Term Chronic	BCWQG	MWLRS 2025a, MWLRS 2023b

Notes:

All WQG are variable and affected by toxicity modifying factors except for total arsenic (5 µg/L) and dissolved iron (350 µg/L).

*The dissolved aluminium BCWQG has been superseded but was used here because the updated BCWQG is based on total aluminum. Using the total aluminum was not appropriate for the site (see text in Section 4.1.2.1).

Several WQG (including those for COPC) are variable and dependent on other water quality parameters (e.g., field pH, hardness, dissolved organic carbon). Variable WQG were calculated using concurrently collected modifying water quality parameters at each sampling site.

Each variable WQG calculation is only valid within a certain range of modifying water quality parameters. Modifying water quality parameters limits for the COPC are summarized in Table 3.3. When a modifying parameter was out of range for the applicable WQG calculation, the nearest valid upper or lower limit was applied instead.

The variable WQGs relative to COPC concentrations were included in the figures throughout Section 4.1.

Table 3.3: Valid ranges of modifying water quality parameter for variable WQG

COPC	Reference	Hardness (as mg/L $CaCO^3$)	pH	DOC (mg/L)
Dissolved Aluminum	The dissolved aluminum BCWQG has been superseded but was used here because the up-to-date BCWQG (MWLRS 2025a) is based on total aluminum.	----	----	----
Dissolved Cadmium	MWLRS 2025a, ENV 2015a	3.4 to 285	----	---
$Dissolved^{BLM}$ Copper	MWLRS 2025a, ENV 2019a	7.9 to 236.8	4.7 to 9.0	0.05 to 20.0
Dissolved Manganese	CCME 2019	37 to 450	---	---

COPC	Reference	Hardness (as mg/L $CaCO^3$)	pH	DOC (mg/L)
Dissolved Lead	MWLRS 2025a, MWLRS 2024	4.7 to 511	---	0.5 to 31.5
Dissolved Zinc	MWLRS 2025a, MWLRS 2023b	10 to 670	6.5 to 8.13	0.3 to 22.9

Notes:
--- water quality parameter not used to calculate WQG
BLM To calculate the BCWQG for dissolved copper, the BC Biotic Ligand Model (BLM) with additional modifying water quality parameters (e.g., major ions) was used

3.2 Hydrology

3.2.1 Flow Measurement Limitations

Instantaneous flow measurements were collected in conjunction with surface water samples, where it was safe and practical. Due to the heavily braided nature of the Taaltsuxéi Héen, these measurements represent a single point-in-time discharge estimate for only one specific braid of the river and do not account for the total discharge of the entire river system at any given time. Furthermore, flows at several key monitoring sites (W11, SW24-4, SW16-8) were too low to measure. The scope and effort of the discharge monitoring program were limited, and while other methods such as constructing weirs or using a current profiler aboard a remote-controlled boat could provide additional data points, these approaches were outside the intended effort for the 2025 monitoring program.

3.2.2 Discharge Measurements and Data Processing

Hydrometric data were collected at up to 20 sites during the 2025 summer program, with 16 measurements in June, 14 in July, 13 in August, and 14 in September (Table 2.1).

At any given site, one of four discharge measurement techniques was used (area-velocity, salt dilution gauging, volumetric, or visual estimate). The method was selected based on channel characteristics and flow conditions and followed the guidance outlined in the BC Hydrometric Standards (RISC 2018). Detailed descriptions of the discharge measurement methods are provided below.

These techniques were used to capture a single-point estimate of discharge at the time of assessment and were not paired with stage measurements or used to develop stage-discharge rating curves. All discharge data were recorded using a field tablet with Survey123 and were saved to SLR's internal files following each field trip.

3.2.2.1 Area-Velocity Measurements

Area-velocity measurements were collected along suitable cross-sections with relatively uniform flow and where the stream was safely wadeable. This measurement approach involves creating a transect with a metered tape and dividing that stream cross-section into vertical panels, spaced such that a minimum of 20 depth and velocity measurements could be collected, unless restricted by narrow channel width. A SonTek FlowTracker2 Acoustic Doppler Velocimeter (ADV) mounted on a top-setting wading rod was used to measure velocity and calculate discharge. The velocity measurements are averaged over 40 seconds at 0.6 times the depth from the water surface (up to 1 m in depth). The FlowTracker2 integrates field measurements

and software to calculate discharge in real-time, improving accuracy in the field. The discharge values for each panel were summed to represent total discharge of that cross-section. Where possible, panels were spaced such that no single panel accounted for more than 10% of the total discharge of the cross-section. Manual mid-section area-velocity discharge measurement procedures and calculation integrated in the instrument were consistent with the BC Hydrometric Standards (RISC 2018).

3.2.2.2 Dilution Gauging Measurements

Salt dilution gauging techniques were used for small, turbulent streams (Hudson and Fraser 2005, Liang and Richardson 1971, Richardson et al. 2017). The method involves introducing a known mass of salt into a stream and allowing it to adequately mix with the water, then measuring the change in conductivity over time at a downstream location. Salt dilution gauging relies on the assumption that there is minimal salt lost during the measurement process and that salt is fully mixed across the channel by the time it passes the downstream measurement point.

Dilution gauging data was recorded using a YSI ProDSS meter and logged in 2-second intervals. Instream electrical conductivity was recorded as specific conductance. The mass of salt used for each test was pre-weighted using a scale with 0.1 g precision. To develop a site-specific relationship between electrical conductivity and salt concentration, a calibration measurement was completed in the field (Hudson and Fraser 2005). The area under the resulting conductivity-time curve is used to calculate the stream discharge, based on the known mass of salt, background conductivity and site-specific calibration factor. Two salt injections were performed at each site for repeatability, and the discharge data presented herein represent the average of both trials.

3.2.2.3 Volumetric Measurements

Volumetric measurements were used on small, low-flow streams or controlled outflows such as the “5400 Clean Water Pipe”. This method involved capturing all streamflow into a container of known volume and measuring the time required to fill the container using a stopwatch. Containers such as a graduated 20-L pail and 1-L measuring cup were used. It is most effective in conditions where the entire flow can be captured without significant spillage or loss. This process was completed three to five times and discharge was calculated by averaging the volume of water collected divided by the elapsed time of each trial.

3.2.2.4 Visual Estimate

Visual estimates were employed in situations where other measurement techniques were impractical, such as in very wide, low-gradient streams with minimal flow. This method involves experienced field personnel making an educated estimate of the stream discharge based on visual observation of flow characteristics.

3.2.3 Quality Assurance and Quality Control

QA/QC measures included real-time data processing and graphical display within the FlowTracker2 to validate depth and velocity profiles during measurement. For dilution gauging, two salt injections were completed at each site to assess repeatability, while three to five trials were performed for volumetric methods, with results averaged to improve accuracy. All discharge data were reviewed in consideration of channel characteristics and field observations to ensure reported values were consistent with site conditions.

3.3 Sediment

River flow in the Taaltsuxéi Héen is seasonal and dynamic, with abrupt changes driven by glacial lake outburst floods (jökulhlaups), which can substantially alter channel morphology. Consequently, sediment sampling site selection was adaptive, based on zone designation and site characteristics rather than fixed geographic coordinates.

Sediment samples were collected from nine sites in June and seven sites in September 2025. The September sampling followed the finalization of the SWMP (SLR 2025a), which retained seven AEMP sites for sediment collection. The two sites that were not retained were SW16-1-AEMP24 and CC-01-AEMP24, both eastern tributaries to the Taaltsuxéi Héen. The finalized seven sites were selected to capture the potential effects of mine site discharge along the Taaltsuxéi Héen mainstem and side channels.

3.3.1 Sediment Sample Collection

Five replicate samples were collected at each site, spaced at least 10 m apart. One split sample was collected at every second site (ENV 2016), corresponding to 10% duplicate samples (1 for everyone 10 samples). Sediment collection targeted finest grained sediment possible from the top 5 cm in the depositional environment of each specific location. Due to the erosional environment characterizing most sites, appropriate depositional areas within each site were often limited and field crews sampled up to 100 m upstream or downstream of each site to locate enough sediment.

Sediment samples were collected using a plastic scoop, homogenized thoroughly in a plastic dish, and then transferred into laboratory provided 100-mL glass jars and large sealable plastic bags. Excess water was drained from sample jars and bags prior to storage in a cooler with ice packs or at temperatures below 10°C, and subsequently shipped to BV, a CALA certified laboratory. Chain of custody forms accompanied all samples.

3.3.2 Laboratory Analysis

Sediment samples were dried at 60°C, sieved using a 2 mm mesh, and digested using a nitric and hydrochloric acid mixture at 95°C for two hours. Sediment samples were analyzed for metals, total organic carbon, total sulphur, nutrients, and particle size (Table 3.4, Appendix D2). Detection limits were consistent with requirements as specified in ENV (2016). All sediment chemistry data was entered into the EQuIS data management system.

Table 3.4: Sediment Analytes

Analytes	RDL	Units
pH	N/A	pH Units
Sulphur (S)	0.06	%
Total Organic Carbon (TOC)	0.05	%
Aluminum (Al)	100	mg/kg
Antimony (Sb)	0.10	mg/kg
Arsenic (As)	0.20	mg/kg
Barium (Ba)	0.20	mg/kg
Beryllium (Be)	0.20	mg/kg

Analytes	RDL	Units
Bismuth (Bi)	0.10	mg/kg
Boron (B)	1.0	mg/kg
Cadmium (Cd)	0.050	mg/kg
Calcium (Ca)	100	mg/kg
Chromium (Cr)	0.50	mg/kg
Cobalt (Co)	0.10	mg/kg
Copper (Cu)	0.50	mg/kg
Iron (Fe)	100	mg/kg
Lead (Pb)	0.10	mg/kg
Lithium (Li)	0.5	mg/kg
Magnesium (Mg)	100	mg/kg
Manganese (Mn)	0.20	mg/kg
Mercury (Hg)	0.05	mg/kg
Molybdenum (Mo)	0.10	mg/kg
Nickel (Ni)	0.50	mg/kg
Phosphorus (P)	10	mg/kg
Potassium (K)	100	mg/kg
Selenium (Se)	0.50	mg/kg
Silver (Ag)	0.050	mg/kg
Sodium (Na)	100	mg/kg
Strontium (Sr)	0.10	mg/kg
Thallium (Tl)	0.050	mg/kg
Tin (Sn)	0.10	mg/kg
Titanium (Ti)	1.0	mg/kg
Tungsten (W)	0.5	mg/kg
Uranium (U)	0.050	mg/kg
Vanadium (V)	1.0	mg/kg
Zinc (Zn)	1.0	mg/kg
Zirconium (Zr)	0.5	mg/kg
Source: BV 2025 RDL = Reportable Detection Limit		

3.3.3 Quality Assurance and Quality Control

3.3.3.1 Field QA/QC

The field QA/QC comprised the collection and analysis of one duplicate sample for every ten sediment samples Field staff wore nitrile gloves when sampling and used laboratory-supplied sample jars and bags. Care was taken to prevent contamination of the sample containers. The plastic scoops used for sediment collection were rinsed thoroughly with stream water between each site to prevent cross-site contamination. Samples were refrigerated or kept on ice between collection and delivery to the analytical laboratory.

3.3.3.2 Laboratory QA/QC

The analytical laboratory used a quality management system based on International Standard of Operation (ISO) 17025:2005, 'General Requirements for the Competence of Calibration and Testing Laboratories.' As part of quality assurance and control, the analytical laboratory incorporated method blanks, sample duplicates, and laboratory control samples for every 10 test samples as required (ENV 2015b).

3.3.3.3 Relative Percent Difference

Relative Percent Difference (RPD) was calculated on the duplicate samples (Appendix D3), as follows:

$$\boldsymbol{RPD}\ (\%) = \frac{\mathbf{2}*(|\boldsymbol{X_1}-\boldsymbol{X_2}|)}{(\boldsymbol{X_1}+\boldsymbol{X_2})} * \mathbf{100}$$

where:

X_1 = concentration of an analyte in the test sample

X_2 = concentration of the same analyte in the duplicate sample.

An RPD of less than 40% was considered an acceptable difference (ENV 2023), whereas an RPD greater than 40% was considered as high sample heterogeneity. An RPD analysis was only completed for those analytes where both values were greater than 5 x the RDL.

3.3.4 Data Analysis

Sediment chemistry data were screened against the most up-to-date guidelines:

- CCME Sediment Quality Guidelines for the Protection of Aquatic Life, for inorganic metals (CCME 2002); and
- British Columbia Working Sediment Quality Guidelines for Aquatic Life, Wildlife and Agriculture (ENV 2025).

The CCME Sediment Quality Guidelines cover protection of freshwater aquatic life by providing scientifically derived benchmarks for evaluating the potential for observing adverse biological effects in aquatic systems. The CCME Interim Sediment Quality Guidelines (ISQG) are associated with *occasional* adverse biological effects, and Probable Effect Levels (PEL) are associated with *frequent* adverse biological effects. Currently, there are CCME ISQG and PEL for arsenic, cadmium, chromium, copper, lead, mercury, zinc (Table 3.5).

The BC Working Sediment Quality Guidelines (WSQG) provide benchmarks for analytes that have not yet been fully assessed and formally endorsed by the BC Ministry of Energy, Mines, and Petroleum Resources and the BC Ministry of Environment and are obtained from other jurisdictions, including the CCME. Most WSQGs have a 'Lower WSQG' equivalent to the CCME ISQG and an 'Upper WSQG' equivalent to the CCME PEL.

Table 3.5: Sediment Quality Guidelines for Metals as of September 2025

Analyte	Units	RDL	CCME ISQG	CCME PEL	BCWSQG
Arsenic	mg/kg	0.2	5.9	17	n/a
Cadmium	mg/kg	0.050	0.6	3.5	n/a
Chromium	mg/kg	0.50	37.3	90	n/a
Copper	mg/kg	0.5	35.7	197	n/a
Lead	mg/kg	0.10	35	91.3	n/a
Mercury	mg/kg	0.05	0.17	0.486	n/a
Selenium	mg/kg	0.50	n/a	n/a	2
Zinc	mg/kg	1.0	123	315	n/a

Notes:
RDL = BV 2025 Reported Detection Limit
CCME = Canadian Council of Ministers of the Environment
ISQG = Interim Sediment Quality Guidelines; threshold level effects below which adverse effects are not expected
PEL = Probable Effects Level; defines the level above which adverse effects are expected to occur frequently
BCWSQG = British Columbia Working Sediment Quality Guideline concentrations for freshwater aquatic sediments
n/a = no approved, interim, or working guideline is available

4.0 Results

4.1 Surface Water

For each analyte discussed in this section, a general characterization of all sampling locations is provided, along with an assessment of spatial variability within the east mainstem and side-channels of the Taaltsuxéi Héen. Spatial variability was evaluated with bar charts that show the relevant sites in upstream to downstream order: one upstream reference site (TUL-05), the exfiltration pond (SE2) from which the majority of mine effluent enters the Taaltsuxéi Héen, and six downstream sites representing a progressive dilution of mine discharge along the flow path. These downstream sites span Zones 2 through 4 (Appendix A, Figure A.4 to A.6):

- Zone 2: W11 (approximately 250 m downstream of the mine site)
- Zone 3: SW16-8 and SW24-4 (approximately 1,000 m downstream)
- Zone 4: SW24-10 and TUL-12 (approximately 2,500 m downstream), and SW24-7 (approximately 4,000 m downstream)

This spatial framework supports interpretation of surface water quality trends relative to proximity to mine discharge sources.

Results from the west mainstem and channels were included in the overview characterization and water quality assessments. However, they were not discussed in the evaluation of the spatial extent of mine discharge effects because mine discharge impacts are concentrated on the east mainstem and side channels of the Taaltsuxéi Héen.

Sampling locations are arranged from upstream to downstream throughout the figures, whenever possible. For results below the RDL, values are represented as 0.5 x RDL. Most sites were sampled in June, July, August, and September 2025; however, access limitations prevented sampling at some locations during some of the sampling events.

It is important to note that in previous seasons, a braid from the Taaltsuxéi Héen mainstem flowed across a gravel bar on the east side of the floodplain just upstream of the mine site and mixed directly with mine discharge. During the 2025 sampling events, this flow pattern was no longer observed, except during the June 2025 jökulhlaup where water levels of the Taaltsuxéi Héen were high enough to flow immediately adjacent to the exfiltration pond (SE2) and directly mix with mine effluent. As a result, dilution of mine discharge in 2025 was limited and occurred primarily through subsurface flow through gravel bars and groundwater pathways.

4.1.1 Surface Water Characterization

4.1.1.1 Field pH

Given that pH is measured on a logarithmic scale, a change of just one pH unit represents a tenfold shift in hydrogen ion concentration. For example, water with a pH of 5 is ten times more acidic than water at pH 6, and one hundred times more acidic than water at pH 7. As a result, even small differences in pH values correspond to substantial chemical differences, which is important to consider when interpreting the data.

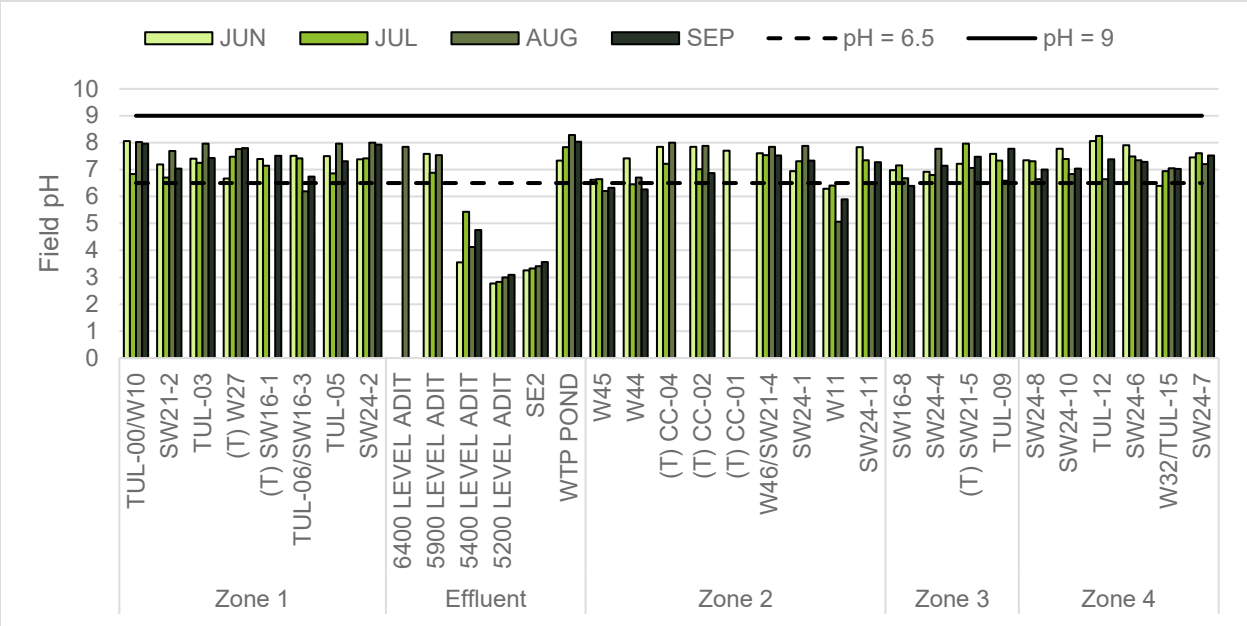
Field pH values in Zone 1 and in Zone 2 locations unaffected by mine discharge were generally circumneutral (6.5 < pH < 7.5) to alkaline (pH > 7.5), ranging from pH 6.19 to 8.06. Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figure A.3 and A.4).

In the Effluent Zone, the field pH at the upper adits (5900 and 6400 Levels) and the WTP pond ranged from 6.88 (5900 Level Adit) to 8.29 (WTP Pond, August), indicating that these sites are not affected by ARD. At the lower adits (5200 and 5400 Level Adit) and the exfiltration pond (SE2), field pH was as low as 2.83 (5200 Level Adit, July) and consistently below 5.5 (Figure 4.1). These low field pH values are indicative of Acid Rock Drainage (ARD).

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.1). However, at W11, located in the east channel approximately 250 m downstream of the mine site, field pH was lower and ranged from 5.06 to 6.41, indicating measurable effects of the mine discharge.

In Zone 3 and Zone 4, the field pH ranged from 6.39 to 8.25 and appeared not measurably affected by mine discharges (Figure 4.1).

Figure 4.1: Field pH



Note: Tributary sites are denoted with (T).

Field pH, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, field pH ranged from 6.86 to 7.96 (Figure 4.2).

Field pH at SE2 ranged from 3. in June to 3.57 in September (Figure 4.2). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, field pH ranged from pH 5.06 to 6.41. Further downstream, at locations in Zone 3 and 4, the field pH was again comparable with the upstream reference location (Figure 4.2). These results indicate that measurable effects of mine site discharges on field pH were variable and extended to a maximum distance of 250 to 750 m downstream on the mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.2: Field pH, East Mainstem and Side-Channels



4.1.1.2 Laboratory Conductivity

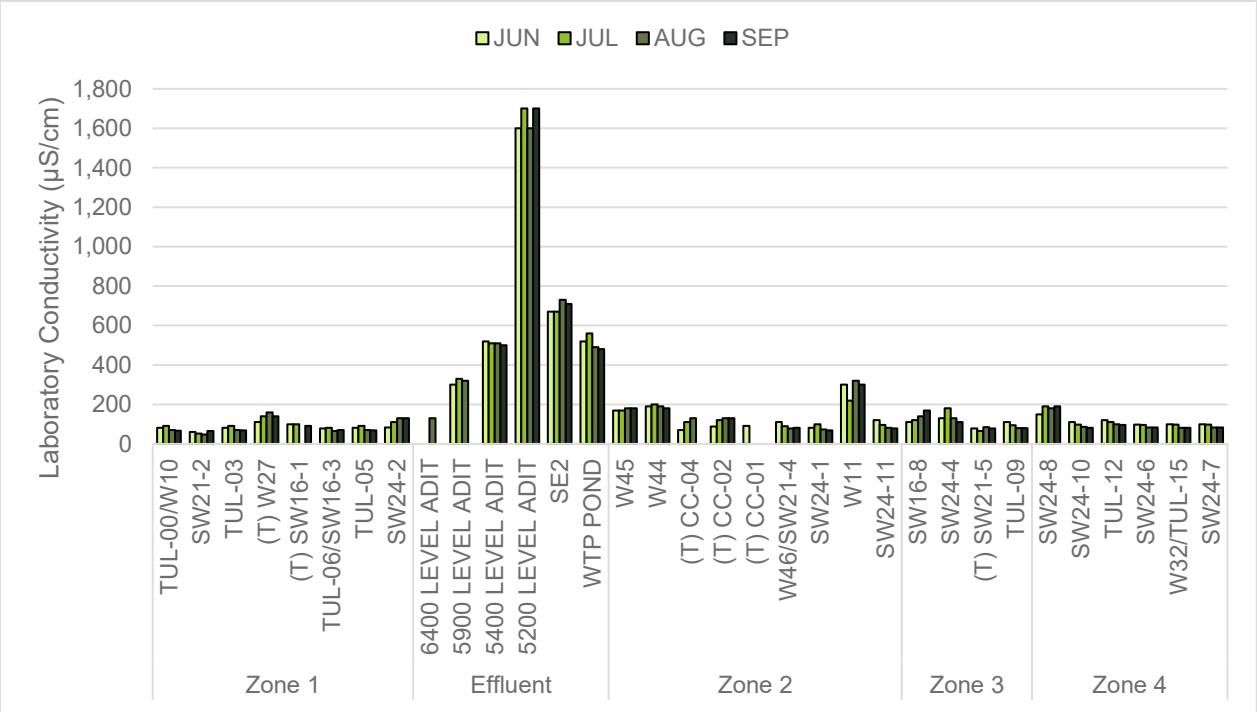
Surface water conductivity (laboratory measured) ranged from 48 to 200 microSiemens per centimetre (µS/cm) in Zone 1 and in locations unaffected by mine discharge in Zone 2 (Figure 4.3). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

In the Effluent Zone, the conductivity ranged from 130 µS/cm (6400 Level Adit, August) to 1,700 µS/cm (5200 Level Adit, July) (Figure 4.3). These comparably high conductivity values in conjunction with low pH (Section 4.1.1.1) and elevated sulphate (Section 4.1.1.3) and metals (Section 4.1.2) are indicative of ARD.

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.3). However, at W11, located in the east channel approximately 250 m downstream of the mine site, conductivity was elevated and ranged from 220 to 320 µS/cm, indicating measurable effects of the mine discharge (Figure 4.3).

In Zone 3 and Zone 4, conductivity ranged from 66 to 190 µS/cm and appeared not measurably affected by mine discharges (Figure 4.3).

Figure 4.3: Laboratory Conductivity



Note: Tributary sites are denoted with (T).

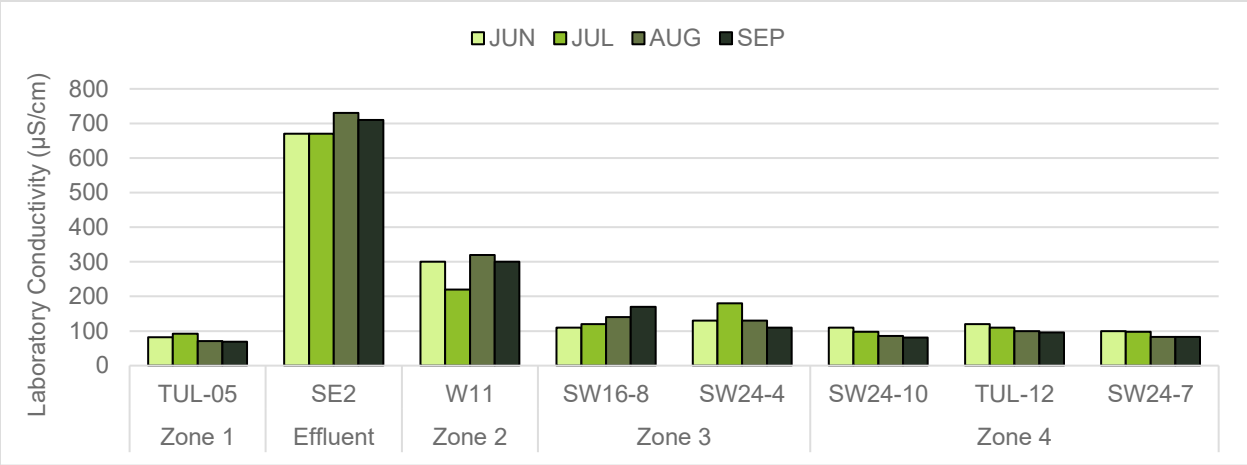
Laboratory Conductivity, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, conductivity ranged from 69 to 92 µS/cm (Figure 4.4). At SE2, conductivity ranged from 670 to 730 µS/cm (Figure 4.4). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, conductivity ranged from 220 to 320 µS/cm (Figure 4.4). In Zone 3, conductivity was ranged from 110 to 180 µS/cm. In Zone 4, conductivity was ranged from 81 to 120 µS/cm and appeared not measurably affected by mine discharges (Figure 4.4).

These results indicate that measurable effects of the mine site discharges on conductivity were variable and extended to approximately 1,000 m to 2,500 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.4: Laboratory Conductivity, East Mainstem and Side-Channels



4.1.1.3 Major Ions

The major cations comprise the divalent cations magnesium and calcium, and the monovalent cations sodium and potassium. The major anions comprise sulphate, chloride, and bicarbonate (reported as total alkalinity).

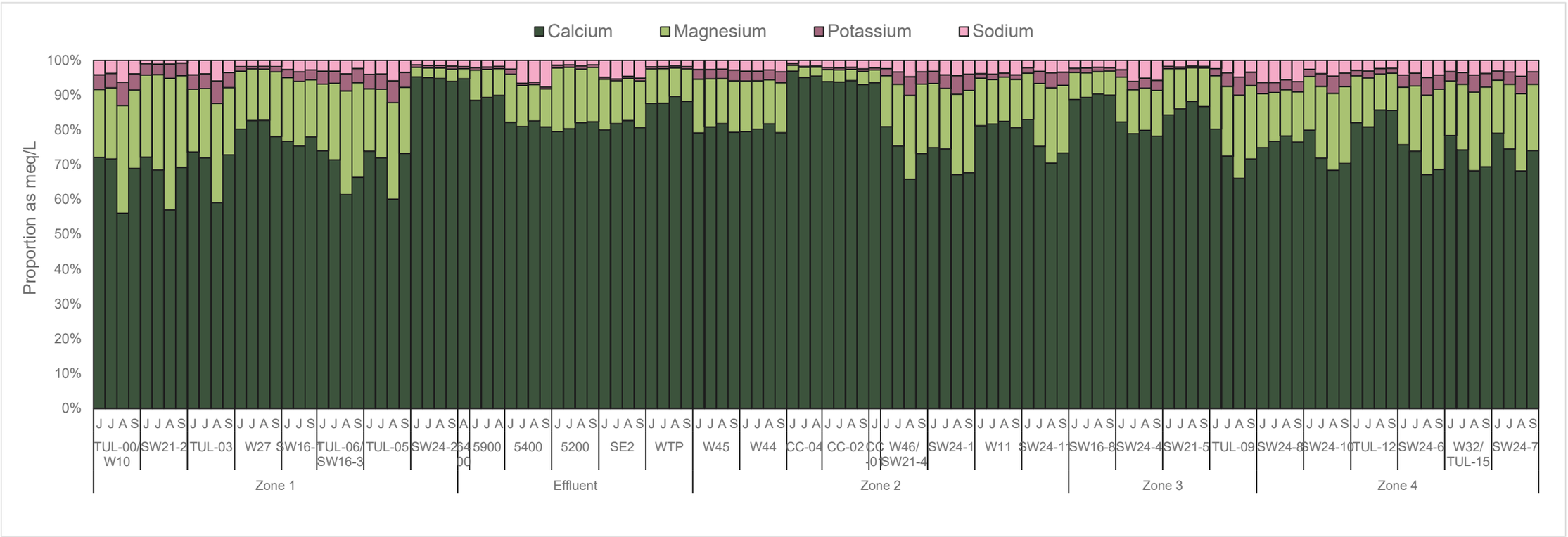
Cations

The dominant cation as a proportion of the total positive charge (as meq/L) was calcium at all sites, which comprised 56% to 97% of the total cationic charge (Figure 4.5). The secondary cation was magnesium, which comprised 2% to 38% of the total cationic charge (Figure 4.5). The monovalent cations sodium and potassium, in contrast, contributed less than 10% of the cationic charge at all sites (Figure 4.5).

The distribution of cationic charge at the five mine sites 6400 Level Adit, 5900 Level Adit, 5400 Level Adit, SE2, and WTP Pond was comparable to the distribution measured within the Taaltsuxéi Héen, with calcium ranging from 79% to 95% of the total cationic charge (Figure 4.5).

The dominance of calcium and magnesium in river samples indicates that water chemistry is strongly influenced by carbonate and silicate mineral weathering, which is typical of the regional geology (Neal 2007, Hem 1985). In glacially dominated systems like the Taaltsuxéi Héen, this weathering is primarily driven by carbonic acid formed when atmospheric CO_2 dissolves into water, as well as by meltwater interacting with glacial clays and freshly ground mineral surfaces. These reactions slowly release Ca^{2+}, Mg^{2+}, and bicarbonate, generating alkalinity and buffering surface waters under normal conditions. Although naturally occurring ARD may occur where sulfide-bearing rock is newly exposed by glacial retreat, its contribution to large-scale calcium and magnesium dominance is expected to be minor because the large volume of dilute meltwater limits the accumulation of sulfuric acid and pH depression. This is consistent with the generally stable pH observed in Taaltsuxéi Héen samples. In contrast, ARD processes are far more evident in effluent samples from the Tulsequah Chief Mine, where sulfide oxidation produces sulfuric acid that rapidly consumes buffering ions and accelerates mineral dissolution. Thus, while glacial weathering processes are the primary drivers of calcium and magnesium dominance in the river, mine-related ARD likely enhances mineral dissolution locally within and downstream of the effluent zone.

Figure 4.5: Relative Charge Milliequivalents per Liter (meq/L) for Cations



Calcium

Despite the consistent proportions of cationic charge related to calcium at all locations, total calcium concentrations were elevated in the Effluent Zone compared to locations in the Taaltsuxéi Héen and associated tributaries (Figure 4.6).

Surface water calcium concentration ranged from 6.05 to 31.6 milligrams per liter (mg/L) in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.6). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

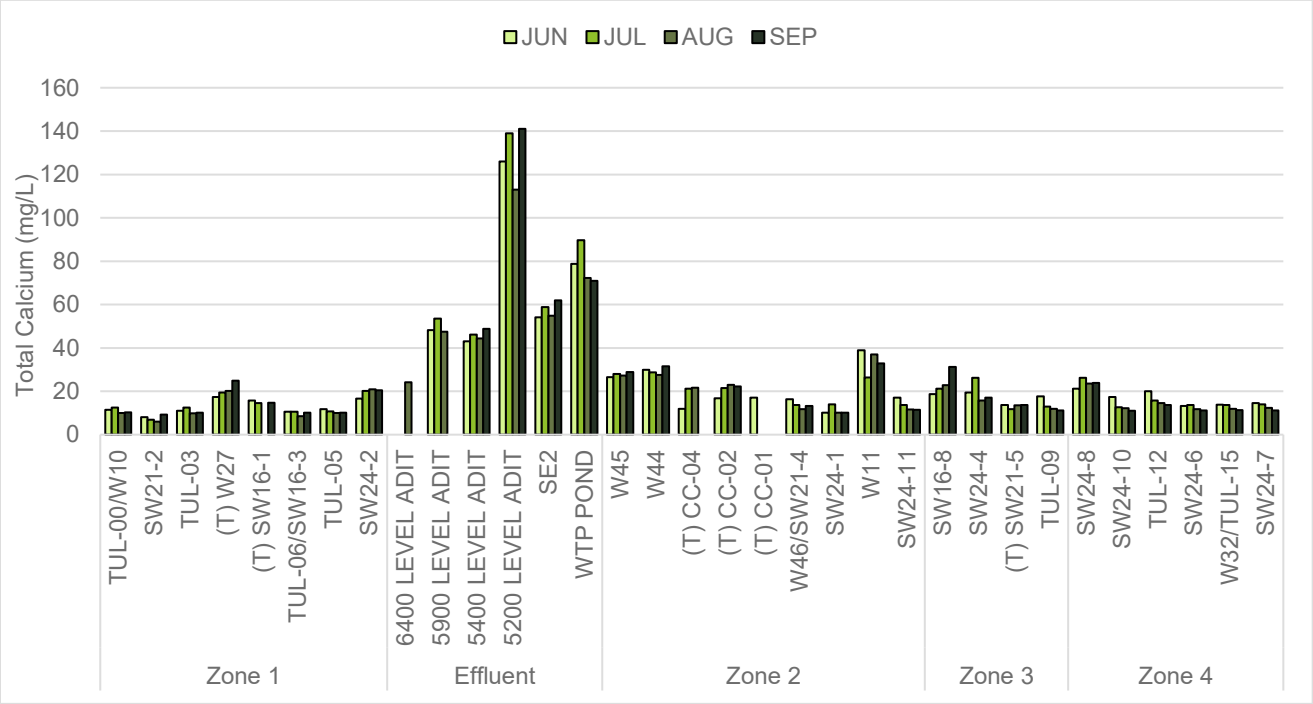
In the Effluent Zone, calcium concentrations ranged from 24.1 mg/L (6400 Level Adit, August) to 141 mg/L (5200 Level Adit, September) (Figure 4.6).

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.6). At W11, located in the east channel approximately 250 m downstream of the mine site, calcium concentrations were elevated and ranged from 26.4 to 38.9 mg/L (Figure 4.6).

In Zone 3, calcium concentrations appeared elevated at SW16-8 in September (31.2 mg/L) and SW24-4 in July (26.2 mg/L).

In Zone 4, calcium concentrations ranged from 11 to 31.2 mg/L and appeared not measurably affected by mine discharges (Figure 4.6). SW24-8, a west clear water side-channel, appears to have elevated calcium concentrations but is not affected by mine discharge (Figure 4.6).

Figure 4.6: Total Calcium



Note: Tributary sites are denoted with (T).

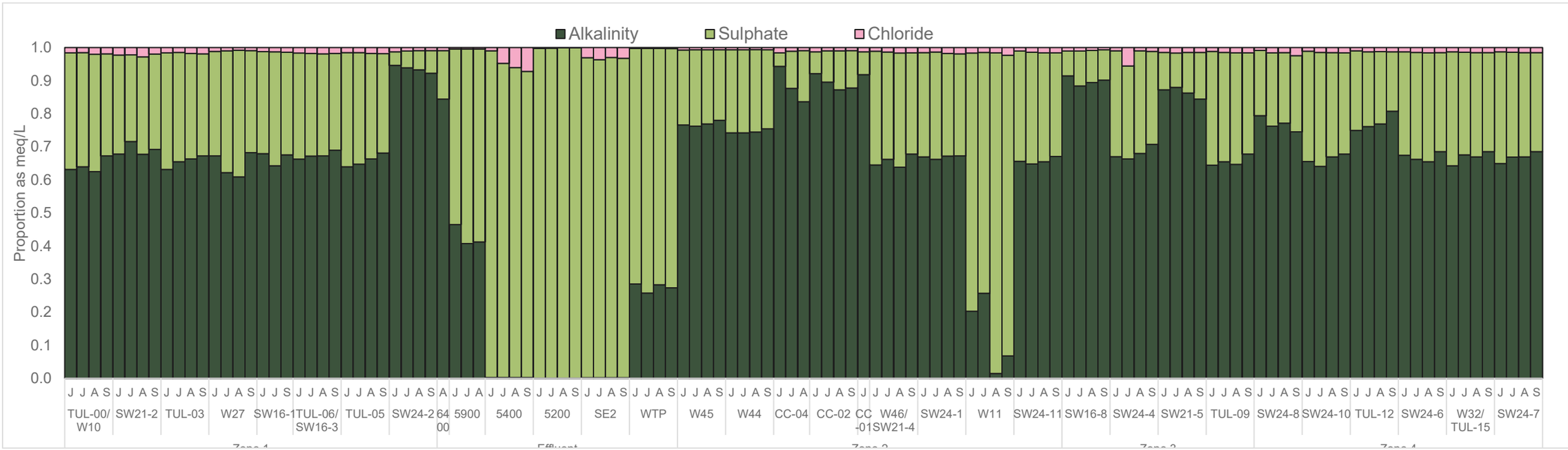
Anions

At all sites unaffected by mine drainage, bicarbonate (expressed as total alkalinity) was the dominant anion, comprising approximately 60% to 95% of the total negative charge (meq/L) (Figure 4.7). This pattern reflects the buffering capacity provided by carbonate minerals in the regional geology, which neutralize acidity and maintain stable pH conditions. Sulphate was the secondary anion, contributing 4% to 38% of the total anionic charge, while chloride remained minor (<7%), indicating minimal influence from saline or anthropogenic sources (Figure 4.7).

In contrast. the distribution of anionic charge at the mine sites (6400 Level Adit, 5900 Level Adit, 5400 Level Adit, 5200 Level Adit, SE2, and WTP Pond) was markedly different than the distribution measured within the Taaltsuxéi Héen and associated tributaries. At three of these sites, bicarbonate was absent, and its contribution was limited to about 30% at WTP Pond. (Figure 4.7). Sulphate replaced bicarbonate as the dominant anion at all mine sampling sites, consistent with the effects of ARD. Sulphide oxidation produces sulphuric acid, which not only lowers pH but also consumes alkalinity, eliminating bicarbonate and dramatically increasing sulphate concentrations. This shift in anion composition is a clear indicator of ARD influence and highlights the loss of natural buffering capacity in mine-impacted waters.

A seasonal variation in bicarbonate concentrations was observed at W11 in the Taaltsuxéi Héen, with lower levels recorded in the August and September compared to June and July (Figure 4.7). This suggests that the depression in alkalinity extended into Zone 2 during late summer, potentially due to reduced dilution and increased exposure of sulphide-bearing materials during low-flow conditions.

Figure 4.7: Relative Charge Milliequivalents per Liter (meq/L) for Anions



Total Alkalinity

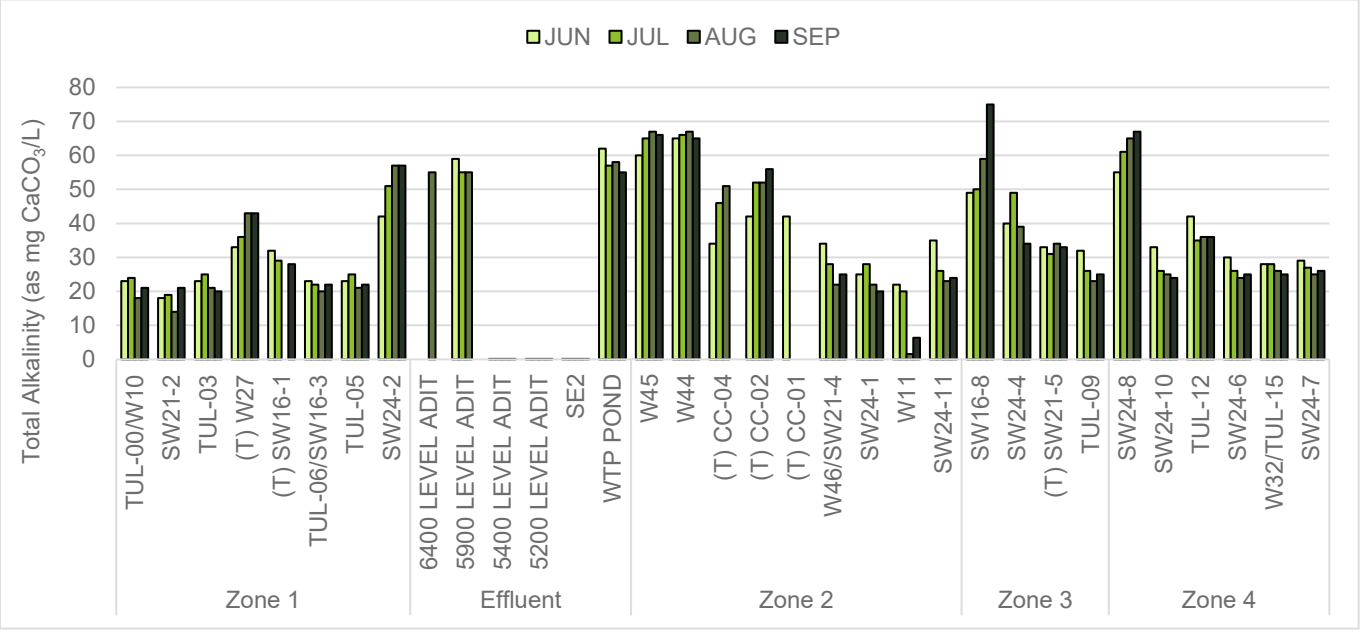
Total alkalinity ranged from 14 to 67 milligrams per liter of calcium carbonate equivalent (mg $CaCO_3$/L) in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.8). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figure A.3 and A.4). These concentrations indicate that the Taaltsuxéi Héen has a moderate buffering capacity, which allows it to resist rapid pH declines and mitigate the effects of acidic inputs (Saffran and Trew 1996).

In contrast, total alkalinity was below the RDL at the 5400 Level Adit, 5200 Level Adit, and SE2 and ranged from 55 to 62 mg $CaCO_3$/L at the 6400 Level Adit seep, 5900 Level Adit and WTP Pond in the Effluent Zone (Figure 4.8).

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.8). At W11, located in the east channel approximately 250 m downstream of the mine site, total alkalinity ranged from 1.6 to 22 mg $CaCO_3$/L, showing a noticeable drop from June/July to August/September concentrations (Figure 4.8). This suggests that buffering capacity is temporarily reduced during late summer low-flow conditions, allowing ARD effects to extend farther downstream. Recovery occurs 250 to 1,000 m downstream of the mine site as dilution and carbonate weathering restore alkalinity, demonstrating the resilience of the system but also highlighting the intensity of ARD at the mine site.

In Zone 3 and 4, total alkalinity ranged from 23 to 75 mg $CaCO_3$/L and appeared not measurably affected by mine discharge (Figure 4.8). Clear water side-channels and tributaries exhibited elevated total alkalinity concentrations compared to the Taaltsuxéi Héen, further supporting the role of natural buffering in mitigating ARD impacts (Figure 4.8).

Figure 4.8: Total Alkalinity



Note: Tributary sites are denoted with (T).

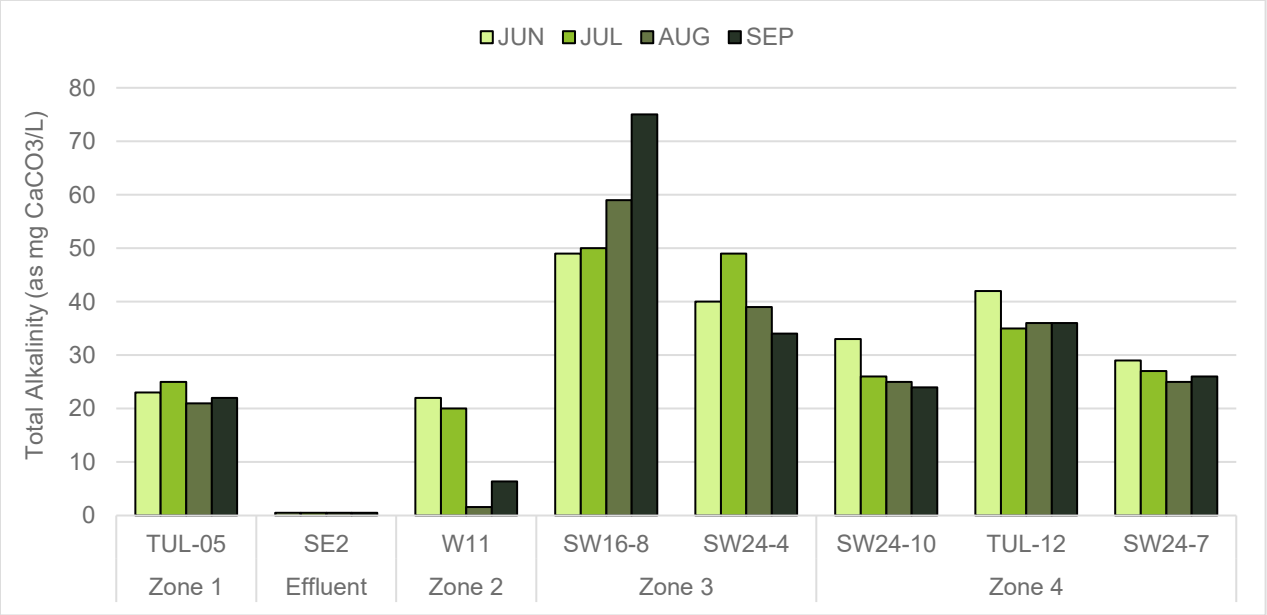
Total Alkalinity, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, total alkalinity ranged from 21 to 25 mg $CaCO_3$/L (Figure 4.9). In the Effluent Zone, total alkalinity was below the RDL at SE2 (Figure 4.9). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, total alkalinity ranged from 1.6 to 22 mg $CaCO_3$/L, showing a noticeable drop from June/July to August/September concentrations (Figure 4.9). In Zone 3 and 4, total alkalinity ranged from 24 to 75 mg $CaCO_3$/L and appeared not measurably affected by mine discharge (Figure 4.9).

These results indicate that measurable effects of the mine site discharges on alkalinity were variable and extended to approximately 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.9: Total Alkalinity, East Mainstem and Side-Channels



Sulphate

Consistent with the distribution of proportions of anionic charge at the sampling location was an increase in sulphate concentrations in the Effluent Zone compared to locations in the Taaltsuxéi Héen and associated tributaries (Figure 4.10).

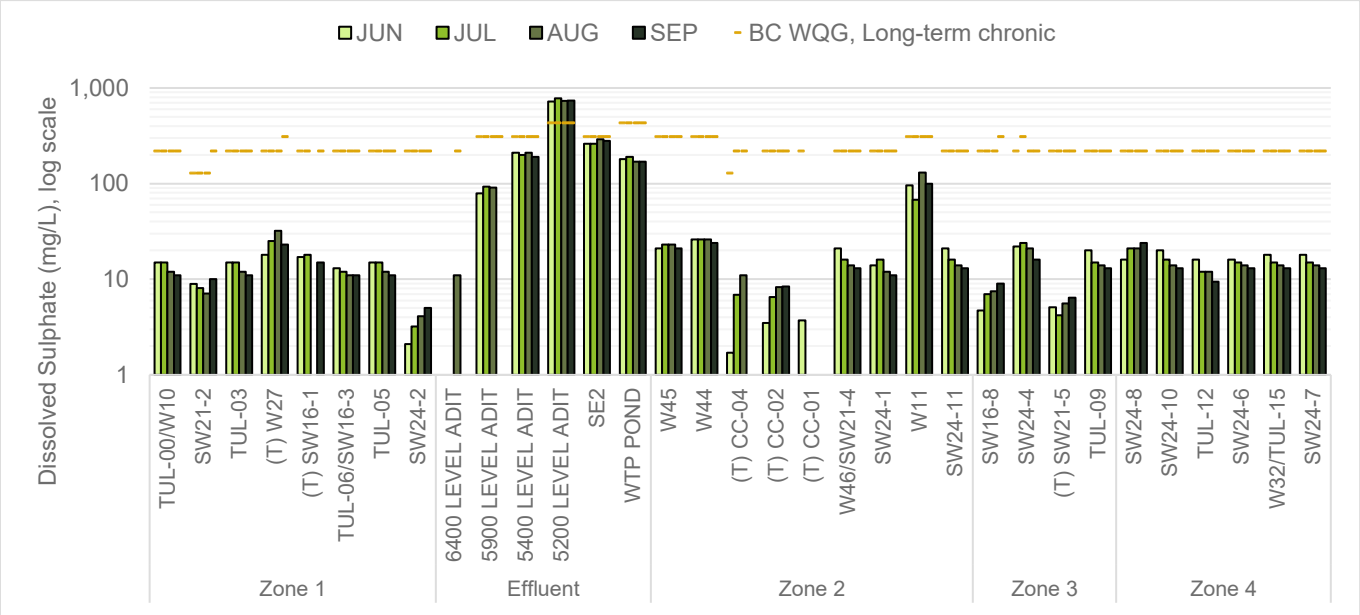
The surface water sulphate concentration ranged from 1.7 to 32 mg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.10). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figure A.3 and A.4).

In the Effluent Zone, sulphate concentrations were 11 mg/L at the 6400 Level Adit seep and ranged from 79 to 780 mg/L at the other effluent sites (Figure 4.10). At the 5200 Level Adit, sulphate concentrations consistently exceeded the BCWQG of 429 mg/L.

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.10). At W11, located in the east channel approximately 250 m downstream of the mine site, sulphate concentrations were elevated and ranged from 68 to 130 mg/L, indicating measurable effects of the mine discharge (Figure 4.10).

In Zone 3 and Zone 4, sulphate concentration ranged from 4.2 to 30 mg/L and appeared not measurably affected by mine discharges (Figure 4.10).

Figure 4.10: Dissolved Sulphate (log scale)



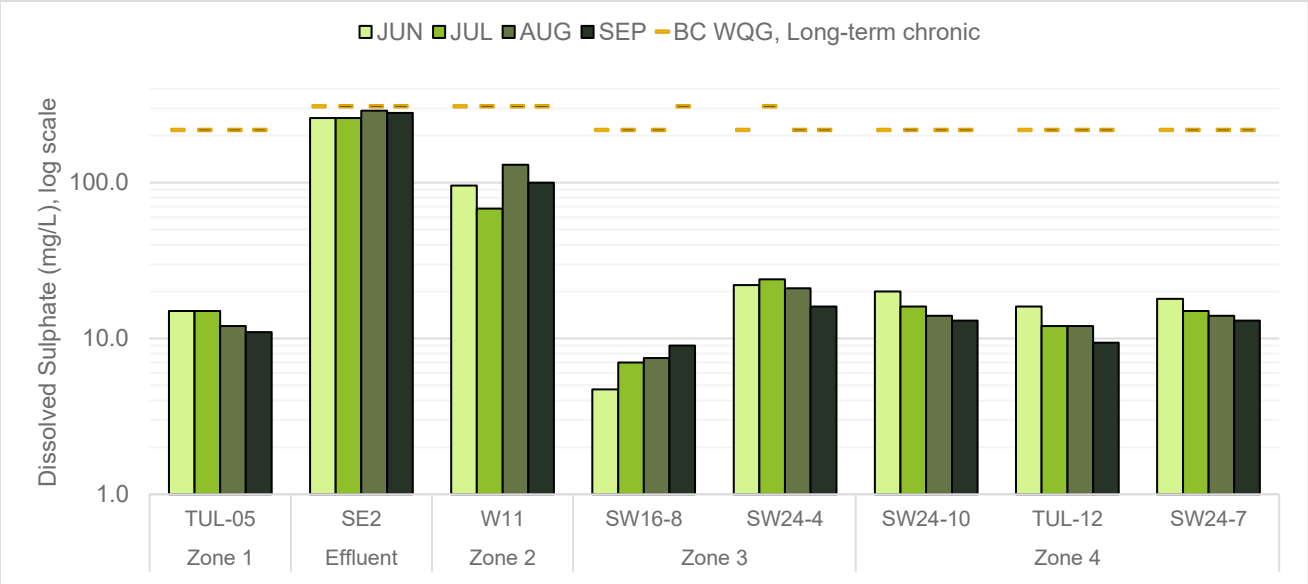
Note: Tributary sites are denoted with (T).

Sulphate, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, sulphate concentrations ranged from 11 to 15 mg/L (Figure 4.11). In the Effluent Zone, sulphate concentrations at SE2 ranged from 260 to 290 mg/L (Figure 4.11). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, sulphate concentrations ranged from 68 to 130 mg/L (Figure 4.11). In Zone 3 and 4, sulphate concentrations ranged from 4.7 to 24 mg/L and appeared not measurably affected by mine discharge (Figure 4.11). These results indicate that measurable effects of the mine site discharges on sulphate concentrations were variable and extended to approximately 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.11: Dissolved Sulphate, East Mainstem and Side-Channels (log scale)



4.1.2 Surface Water Quality

Several COPC WQG are variable and dependent on other water quality parameters (e.g., field pH, hardness, dissolved organic carbon). Variable WQG were calculated using concurrently collected modifying water quality parameters at each sampling site. The variable WQGs relative to COPC concentrations were included in the figures throughout this section.

Based on previous reports (SLR 2022, 2023) and the 2024 (SLR 2025b) and 2025 surface water data presented here, the identified COPC were pH, sulphate, aluminum, arsenic, cadmium, copper, iron, manganese, lead, and zinc. Both pH and sulphate are discussed in Section 4.1.1 above. Dissolved manganese is only briefly discussed because the concentration, although elevated in mine site waters to up to 65% of the CCME WQG, never exceeded 30% of the CCME WQG in the Taaltsuxéi Héen (CCME 2019, ENV 2019b).

Consistent with previous reports (SLR 2022, SLR 2023, SLR 2025b), the 2025 surface water chemistry data indicate that the mine sites discharge ARD with low pH, elevated sulphate, and with metal concentrations consistently above WQG (Table 4.1). In addition, the mine site discharge chemistry was measurably different from upstream reference locations in Zone 1 and persisted 250 to 4,200 m downstream in the east mainstem and side channels of the Taaltsuxéi Héen (Table 4.1).

In addition to the previously identified COPCs, BCWQG exceedances were identified for total beryllium, total chromium (trivalent and hexavalent), dissolved cobalt, total iron, total mercury (depending on the percentage of mercury present as methyl-mercury), dissolved nickel, and total thallium. These exceedances are summarized in Section 4.1.2.9.

Table 4.1: 2025 COPC Concentrations and WQG Exceedances

			Identified COPC																		Other Exceedances									
			pH (field)	sulphate	sulphate BC WQG FW (chronic)	aluminum	aluminum (dissolved) BC WQG FW (chronic) superseded	aluminum (total) BC WQG FW (chronic)		arsenic	cadmium	cadmium (dissolved) BC WQG FW (chronic)	copper	copper (dissolved) BC WQG FW (chronic) BLM	iron	lead	lead (dissolved) BC WQG FW (chronic)	manganese	manganese (dissolved) CCME WQG FW (chronic)	zinc	zinc (dissolved) BC WQG FW (chronic)	beryllium	chromium (III+VI)	cobalt	iron	mercury	mercury (total) BC WQG (chronic) at 5% methylmercury	mercury (total) BC WQG (chronic) at 0.5% methylmercury	nickel	nickel (dissolved) BC WQG (chronic) BLM	thallium
	Filtered or Total		T	T	T	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	Unit		pH	mg/L	mg/L	µg/L	µg/L	µg/L		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	WQG		BCWQG, long-term												BCWQG, short-term	BCWQG, long-term			CCME WQG, long-term		BCWQG, long-term		Working BCWQG, long-term		BCWQG, long-term	BCWQG, short-term	BCWQG, long-term					Working BCWQG, long-term
			6.5-9.0	variable		variable		variable		5.0	variable		variable		350	variable			variable		variable		0.13	2.5	0.39	1000	variable			variable		0.03
Zone	Site	Sample Month																														
Zone 1	TUL-00/W10	JUN	8.06	15	218	50.2	50	1270	58	1.18	0.0067	0.018	0.155	0.2	5.0	0.0130	1.3	3.74	200	0.11	1.3	0.033	1.93	0.0393	1520	< 0.0019	0.002	0.02	0.342	1.3	0.019
		JUL	6.83	15	218	51.2	50	1130	18	1.35	0.0080	0.018	0.147	0.2	6.6	0.0134	1.3	4.04	350	< 0.10	4	0.032	1.52	0.0317	1410	< 0.0019	0.002	0.02	0.271	1.2	0.0228
		AUG	8.03	12	218	59.4	50	5650	57	2.77	0.0093	0.018	0.138	0.2	10.5	0.0206	1.3	2.59	270	0.14	1.4	0.151	8.65	0.0265	6240	< 0.0019	0.002	0.02	0.224	1.2	0.0619
		SEP	7.96	11	218	47.9	50	2030	53	1.72	0.0058	0.018	0.127	0.2	4.9	0.0105	1.3	1.62	270	< 0.10	1.4	0.056	2.84	0.0171	2590	< 0.0019	0.002	0.02	0.128	1.1	0.029
	TUL-05	JUN	7.5	15	218	45.8	50	971	34	1.01	0.0103	0.018	0.177	0.2	5.9	0.0140	1.3	3.83	350	0.25	2.1	0.02	1.53	0.0408	1190	< 0.0019	0.002	0.02	0.364	1.2	0.0162
		JUL	6.86	15	218	49.6	50	1200	18	1.09	0.0081	0.018	0.149	0.2	7.6	0.0147	1.3	3.36	350	0.10	3.3	0.026	1.54	0.0325	1350	< 0.0019	0.002	0.02	0.288	1.2	0.0204
		AUG	7.96	12	218	52.2	50	4490	53	2.16	0.0105	0.018	0.137	0.2	9.6	0.0210	1.3	3.05	270	0.25	1.5	0.111	6.49	0.0346	4730	< 0.0019	0.002	0.02	0.212	1.2	0.0507
		SEP	7.31	11	218	38.7	50	1100	27	1.14	0.0063	0.018	0.095	0.2	5.3	0.0090	1.3	1.97	350	< 0.10	2.2	0.026	1.48	0.0215	1420	< 0.0019	0.002	0.02	0.145	1	0.0215
Effluent	5200 LEVEL ADIT	JUN	2.77	720	429	27700	10.8	27400	30	77.1	394	0.018	25100	0.2	34200	251	1.3	533	830	95300	44	0.54	5.2	14.3	43000	0.0021	0.002	0.02	17.2	12.1	0.9
		JUL	2.83	780	429	22800	10.1	27800	27	96.4	341	0.018	21000	0.2	20600	207	1.3	451	940	84100	46	0.45	5.5	11.3	49800	0.0019	0.002	0.02	15.2	12.2	1.1
		AUG	3	730	429	25500	8.5	16700	30	64.4	370	0.018	21900	0.2	26500	224	1.3	462	830	89100	39	0.38	4.1	11.9	36800	< 0.0019	0.002	0.02	12.9	12.2	0.879
		SEP	3.09	740	429	23900	7.9	23600	30	66.5	403	0.018	25200	0.2	25700	236	1.3	503	940	96800	46	0.78	4.5	12.1	44600	< 0.0019	0.002	0.02	14.9	12.1	1.07
	5400 LEVEL ADIT	JUN	3.55	210	309	3860	5.8	3890	16	135	176	0.018	6640	0.2	155	96.9	1.3	319	560	42700	15	0.13	< 1.0	3.26	12500	0.0154	0.002	0.02	5.98	4.3	0.16
		JUL	5.43	200	309	2380	9.9	2980	16	94.0	137	0.018	4950	0.2	70	52.4	1.3	246	560	33700	16	0.155	< 0.50	2.57	8440	0.0111	0.002	0.02	4.99	4.2	0.124
		AUG	4.12	210	309	3510	5.1	2780	17	139	145	0.018	5960	0.2	44.5	59.8	1.3	251	560	34800	15	0.169	0.67	2.67	12700	0.0111	0.002	0.02	4.62	4.7	0.121
		SEP	4.76	190	309	2410	5.9	3330	17	159	146	0.018	6060	0.2	28.2	45.5	1.3	263	560	35500	17	0.171	0.58	2.71	14300	0.0076	0.002	0.02	4.55	4.6	0.132
	5900 LEVEL ADIT	JUN	7.58	79	309	35.8	50	2800	42	11.8	4.58	0.018	3.26	0.2	2.3	0.0213	1.3	41.4	500	1300	6.7	0.151	0.51	3.00	5030	< 0.0019	0.002	0.02	2.34	3.9	0.0154
		JUL	6.88	93	309	57.0	50	360	28	1.20	4.79	0.018	2.94	0.2	2.3	0.0082	1.3	56.3	710	1440	13	0.011	0.27	3.80	663	< 0.0019	0.002	0.02	2.70	3.9	0.0132
		AUG	7.54	91	309	38.6	50	369	66	1.69	4.70	0.018	4.29	0.2	15.4	0.0185	1.3	75.2	570	1350	8.3	0.021	< 0.10	5.30	990	0.0024	0.002	0.02	3.07	4.2	0.0149
	SE2	JUN	3.26	260	309	6740	6.9	6640	19	52.1	154	0.018	7290	0.2	1120	97.8	1.3	334	610	37900	19	0.254	1.03	5.43	7910	0.0074	0.002	0.02	8.42	5.4	0.238
		JUL	3.33	260	309	5690	6.6	5470	18	42.4	144	0.018	6100	0.2	320	82.1	1.3	294	610	35600	20	0.19	1.06	4.09	6220	0.0151	0.002	0.02	6.86	5	0.219
		AUG	3.41	290	309	7530	6.3	5070	19	81.6	163	0.018	7730	0.2	1030	100	1.3	304	610	40100	19	0.189	1.25	4.77	12100	0.0071	0.002	0.02	7.05	5.8	0.25
		SEP	3.57	280	309	6740	5.8	6440	19	62.1	161	0.018	8020	0.2	540	95.0	1.3	340	650	39400	22	0.22	< 1.0	5.37	9150	0.0057	0.002	0.02	7.90	5.8	0.249
Zone 2	W11	JUN	6.29	96	309	14.0	32.6	2200	18	6.12	42.1	0.018	1240	0.2	< 2.0	2.10	1.3	110	610	9670	14	0.074	0.34	2.01	975	< 0.0019	0.002	0.02	3.70	3.3	0.102
		JUL	6.41	68	309	18.1	40.4	1110	16	6.43	22.4	0.018	307	0.2	< 1.0	0.863	1.3	55.2	530	5280	9.6	0.042	0.43	0.919	1020	< 0.0019	0.002	0.02	1.88	2.3	0.0515
		AUG	5.06	130	309	183	7.1	2150	15	15.6	58.1	0.018	2570	0.2	73.7	14.3	1.3	128	510	14000	13	0.118	0.74	2.19	2360	0.0020	0.002	0.02	4.23	3.7	0.113
		SEP	5.9	100	309	15.2	17.7	1280	14	2.71	51.2	0.018	1800	0.2	< 2.0	4.85	1.3	116	470	12300	12	0.063	< 0.20	1.88	437	< 0.0019	0.002	0.02	4.04	3.4	0.0779
Zone 3	SW16-8	JUN	6.98	4.7	218	13.9	50	314	48	0.914	0.0782	0.018	2.49	0.2	6.0	0.0201	1.3	0.417	500	4.09	6.7	< 0.010	0.67	0.0177	393	0.0023	0.002	0.02	0.123	1.6	0.0071
		JUL	7.16	7.0	218	9.27	50	160	56	0.726	0.135	0.018	2.09	0.2	2.1	0.0110	1.3	0.729	490	7.08	6.2	< 0.010	0.48	0.0132	176	< 0.0019	0.002	0.02	0.186	1.9	0.0065
		AUG	6.68	7.5	218	9.44	50	93.3	44	0.766	0.148	0.018	2.17	0.2	2.1	0.0063	1.3	0.655	490	6.88	10	< 0.010	0.28	0.0181	161	< 0.0019	0.002	0.02	0.161	2	0.0071
		SEP	6.39	9.0	309	5.82	39.0	19.9	16	0.862	0.120	0.018	1.27	0.2	1.9	< 0.0050	1.3	1.95	530	7.05	10	< 0.010	0.16	0.0098	27.6	< 0.0019	0.002	0.02	0.141	2.2	0.0048
	SW24-4	JUN	6.92	22	218	20.4	50	210	22	1.49	0.0209	0.018	0.253	0.2	3.3	0.0108	1.3	1.77	490	0.37	5.1	< 0.010	0.48	0.0192	333	0.0033	0.002	0.02	0.381	1.7	0.0155
		JUL	6.8	24	309	19.7	50	33.7	22	0.695	0.182	0.018	3.90	0.2	< 1.0	0.0285	1.3	0.306	590	34.2	7.5	< 0.010	0.13	0.0086	21.9	< 0.0019	0.002	0.02	0.172	2.2	0.0143
		AUG	7.77	21	218	27.9	50	170	45	0.697	0.816	0.018	5.42	0.2	< 1.0	0.0247	1.3	1.41	270	140	2.1	< 0.010	0.39	0.0312	167	< 0.0019	0.002	0.02	0.206	1.7	0.0108
		SEP	7.14	16	218	21.2	50	149	25	0.986	0.0417	0.018	0.854	0.2	< 1.0	< 0.0050	1.3	0.143	380	4.17	3.8	< 0.010	0.24	< 0.0050	142	< 0.0019	0.002	0.02	0.084	1.4	0.0083
Zone 4	SW24-10	JUN	7.77	20	218	30.0	50	755	45	3.49	0.0148	0.018	0.235	0.2	10.2	0.0143	1.3	4.08	320	0.21	2.4	0.032	1.57	0.0345	1390	0.0121	0.002	0.02	0.724	1.6	0.0348
		JUL	7.4	16	218	43.2	50	1250	31	1.38	0.0129	0.018	0.182	0.2	7.3	0.0154	1.3	4.71	350	0.21	2.5	0.034	1.76	0.0375	1480	< 0.0019	0.002	0.02	0.298	1.3	0.0198
		AUG	6.84	14	218	44.1	50	2770	18	1.77	0.0112	0.018	0.134	0.2	7.3	0.0149	1.3	3.95	350	0.17	4	0.072	4.73	0.0288	2980	< 0.0019	0.002	0.02	0.273	1.3	0.0404
		SEP	7.04	13	218	36.1	50	1900	21	1.73	0.0099	0.018	0.158	0.2	5.5	0.0111	1.3	3.90	380	0.13	3	0.06	2.85	0.0280	2410	0.0021	0.002	0.02	0.255	1.1	0.0277
	TUL-12	JUN	8.06	16	218	15.6	50	439	58	1.57	0.0209	0.018	0.253	0.2	2.1	0.0062	1.3	3.24	220	0.86	2.1	0.011	0.87	0.0153	550	< 0.0019	0.002	0.02	0.131	1.7	0.0054
		JUL	8.25	12	218	26.4	50	701	69	1.83	0.153	0.018	1.21	0.2	1.5	0.0065	1.3	1.65	200	24.3	1.6	0.018	1.19	0.0174	837	< 0.0019	0.002	0.02	0.132	1.5	0.0093
		AUG	6.65	12	218	25.6	50	113	17	1.19	0.113	0.018	1.23	0.2	< 1.0	< 0.0050	1.3	1.01	350	18.0	4.7	< 0.010	0.92	0.0083	141	< 0.0019	0.002	0.02	0.075	1.6	0.0043
		SEP	7.38	9.4	218	20.1	50	115	31	1.26	0.0272	0.018	0.198	0.2	< 1.0	< 0.0050	1.3	1.24	350	2.15	2.4	< 0.010	0.22	< 0.0050	111	< 0.0019	0.002	0.02	0.069	1.4	0.0028
	SW24-7	JUN	7.45	18	218	32.9	50	519	33	1.35	0.0122	0.018	0.228	0.2	6.4	0.0117	1.3	4.64	350	0.20	2.6	< 0.010	0.94	0.0379	725	0.0042	0.002	0.02	0.577	1.4	0.0195
		JUL	7.61	15	218	46.2	50	1290	38	1.34	0.0142	0.018	0.208	0.2	9.3	0.0178	1.3	4.80	320	0.26	2.3	0.027	1.94	0.0419	1570	< 0.0019	0.002	0.02	0.301	1.3	0.0211
		AUG	7.2	14	218	43.2	50	3120	25	1.85	0.0119	0.018	0.160	0.2	7.8	0.0170	1.3	4.44	380	0.18	3	0.094	4.61	0.0348	3320	< 0.0019	0.002	0.02	0.300	1.3	0.0408
		SEP	7.53	13	218	37.5	50	1180	34	1.33	0.0082	0.018	0.140	0.2	5.7	0.0117	1.3	3.75	350	1.03	2	0.033	1.69	0.0226	1540	< 0.0019	0.002	0.02	0.203	1.2	0.0207
	W32/TUL-15	JUN	6.39	18	218	31.2	39.0	445	12	1.21	0.0216	0.018	0.304	0.2	5.8	0.0372	1.3	5.03	310	0.35	5.4	0.019	0.77	0.0499	594	0.0040	0.002	0.02	0.557	1.3	0.0145
		JUL	6.94	15	218	42.7	50	889	20	1.22	0.0122	0.018	0.187	0.2	7.4	0.0149	1.3	4.62	350	0.19	3.8	0.028	1.27	0.0379	1090	0.0020	0.002	0.02	0.283	1.3	0.0173
		AUG	7.05	14	218	44.1	50	2970	22	1.86	0.0094	0.018	0.144	0.2	8.2	0.0151	1.3	4.09	380	0.18	3.3	0.078	4.59	0.0365	3450	< 0.0019	0.002	0.02	0.262	1.3	0.0425
		SEP	7.03	13	218	35.3	50	2150	21	1.76	0.0085	0.018	0.124	0.2	5.1	0.0095	1.3	4.05	380	0.11	3.2	0.054	3.36	0.0253	2740	< 0.0019	0.002	0.02	0.231	1.1	0.0297

Notes:

BCWQG, long-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Long-term (superceded BC WQG applied to dissolved aluminum only)
BCWQG, short-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Short-term (screened for dissolved iron only)
Working BCWQG, Long-term	BC Working Water Quality Guidelines, Freshwater Aquatic Life, Long-term
CCME WQG, long-term	CCME Water Quality Guidelines, Freshwater Aquatic Life, Long-term (screened for dissolved manganese only)
µg/L	microgram per litre
mg/L	milligram per litre
1	exceedance above applicable WQG
1	for mercury only: exceedance above BCWQG assuming 0% methylmercury

4.1.2.1 Total and Dissolved Aluminum

With the recent revision of the BCWQG for aluminum (MWLRS 2023a), the site-specific total aluminum WQG are now extremely low for freshwaters with minimal concentrations of dissolved organic carbon (DOC). In the Taaltsuxéi Héen, the median DOC was below detection limit and consequently the minimum site-specific BCWQG for total aluminum was only 14 micrograms per liter (µg/L).

In addition, the previous WQG was applicable to dissolved aluminum while the current WQG is for total aluminum. This change has resulted in considerably higher aluminum concentrations being assessed against the WQG. Under both clear water and turbid flow conditions the aluminum D:T ratio was less than 0.3 for most samples (Appendix C3), which means that nearly all of the aluminum was in the particulate form attached to suspended sediment. The exception was for the clearest flow conditions (TSS < 1.0), and for the discharge samples collected from the mine site where the pH was less than 4.0 and aluminum was predominantly present in the dissolved form (Appendix C3).

Considering that most sites on the Taaltsuxéi Héen had turbid flows (TSS > 25 mg/L, ENV 2021a), and the likely source of the suspended sediments was from glacial meltwater, the particulate aluminum in the Taaltsuxéi Héen is largely non-bioavailable and pose minimal toxicity risk. As a result, evaluating total aluminum alone did not provide an accurate measure of mine-related effects. To better assess the contribution of potentially bioavailable aluminum associated with Acid Rock Drainage (ARD), dissolved aluminum concentrations were also screened against the previous BCWQG based on dissolved aluminum.

Total aluminum concentrations exceeded current BCWQG at all Taaltsuxéi Héen mainstem sites, including those in Zone 1 upstream of the Tulsequah Chief mine site, whereas concentrations in tributary and side-channel sites were generally below the BCWQG (Table 4.1, Appendix C2). Total aluminum concentrations in Zone 1 mainstem sites (TUL-00/W10, TUL-03, TUL-05) ranged from 897 to 5,650 µg/L (Appendix C2). In comparison, total aluminum concentrations at the exfiltration pond (SE2) and in the Taaltsuxéi Héen east channel 250 m downstream of the mine site (W11) ranged from 5,070 to 6,640 µg/L and 1,110 to 2,200 µg/L, respectively (Appendix C2).

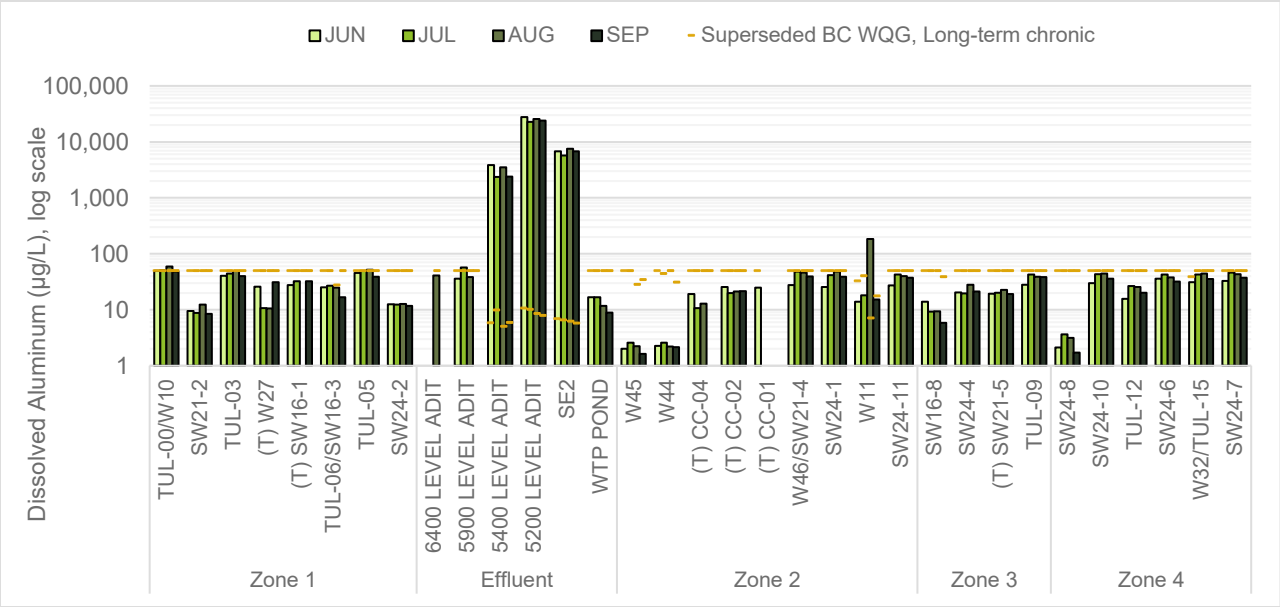
The surface water dissolved aluminum concentration ranged from 1.63 to 59.4 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.12). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

In the Effluent Zone, dissolved aluminum concentrations ranged from 8.95 µg/L at the WTP Pond to 27,700 µg/L at the 5200 Level Adit. Dissolved aluminum concentrations consistently exceeded the superseded BCWQG at the 5400 Level Adit, 5200 Level Adit, and SE2 (Figure 4.12).

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.12). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved aluminum concentrations ranged from 14 µg/L in June to 183 µg/L in August (Figure 4.12). The latter value exceeded the superseded BCWQG, indicating effect from mine discharge (Figure 4.12).

In Zone 3 and Zone 4, dissolved aluminum concentration ranged from 1.72 to 46.2 µg/L and appeared not measurably affected by mine discharges (Figure 4.12).

Figure 4.12: Dissolved Aluminum (log scale)



Note: Tributary sites are denoted with (T).

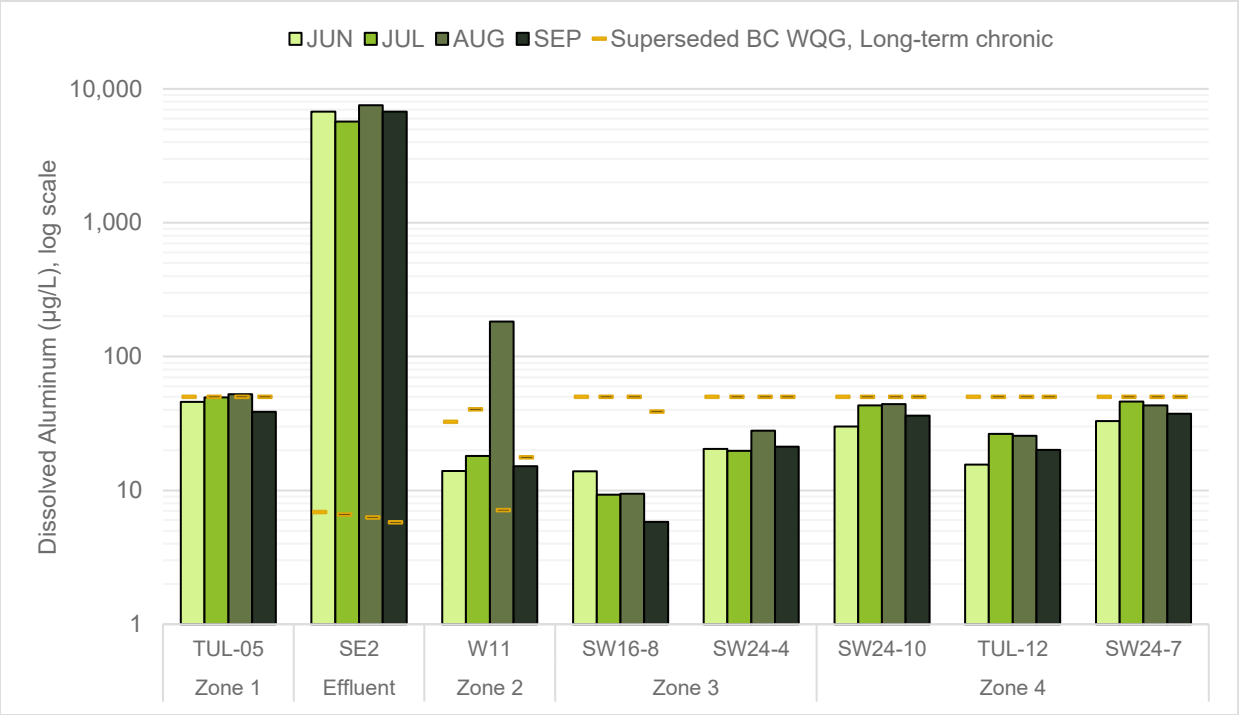
Dissolved Aluminum, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, dissolved aluminum concentrations ranged from 38.7 to 52.2 µg/L (Figure 4.13). In the Effluent Zone, dissolved aluminum concentrations ranged from 5,690 to 7,530 µg/L at SE2 (Figure 4.13) and consistently exceeded the superseded BCWQG. At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, dissolved aluminum concentrations ranged from 14 µg/L in June to 183 µg/L in August (Figure 4.13). The latter value exceeded the superseded BCWQG (Figure 4.13). In Zone 3 and Zone 4, dissolved aluminum concentration ranged from 1.72 to 46.2 µg/L and appeared not measurably affected by mine discharges (Figure 4.13).

These results indicate that measurable effects of the mine site discharges on dissolved aluminum concentrations were variable and extended to approximately 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.13: Dissolved Aluminum, East Mainstem and Side-Channels (log scale)



4.1.2.2 Total Arsenic

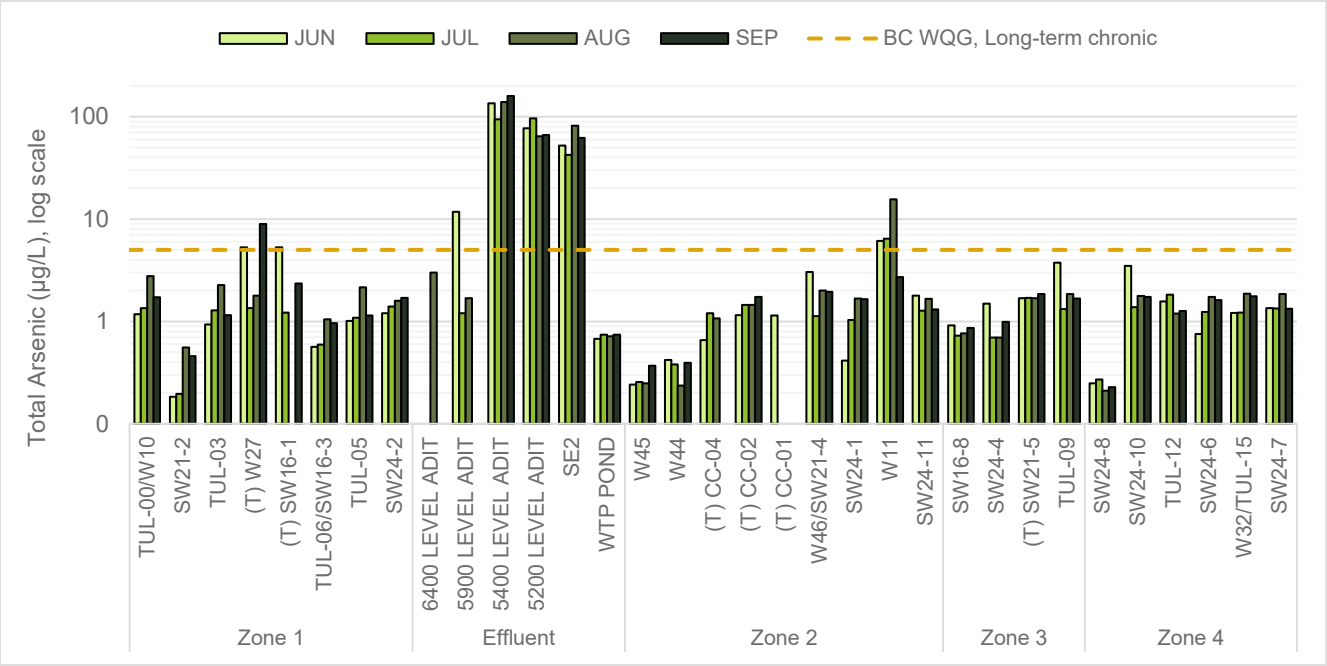
The surface water total arsenic concentration ranged from 0.183 to 8.94 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.14). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

In the Effluent Zone, total arsenic concentrations ranged from 0.676 µg/L at the WTP Pond to 159 µg/L at the 5400 Level Adit. Total arsenic concentrations consistently exceeded the BCWQG (5 µg/L) at the 5400 Level Adit, 5200 Level Adit, and SE2 (Figure 4.14).

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.14). However, at W11, located in the east channel approximately 250 m downstream of the mine site, total arsenic concentrations ranged from 2.71 to 15.6 µg/L and exceeded the BC WQG of 5 µg/L in June, July, and August (Figure 4.14).

In Zone 3 and Zone 4, total arsenic concentration ranged from 0.211 to 3.75 µg/L and appeared not measurably affected by mine discharges (Figure 4.14).

Figure 4.14: Total Arsenic (log scale)



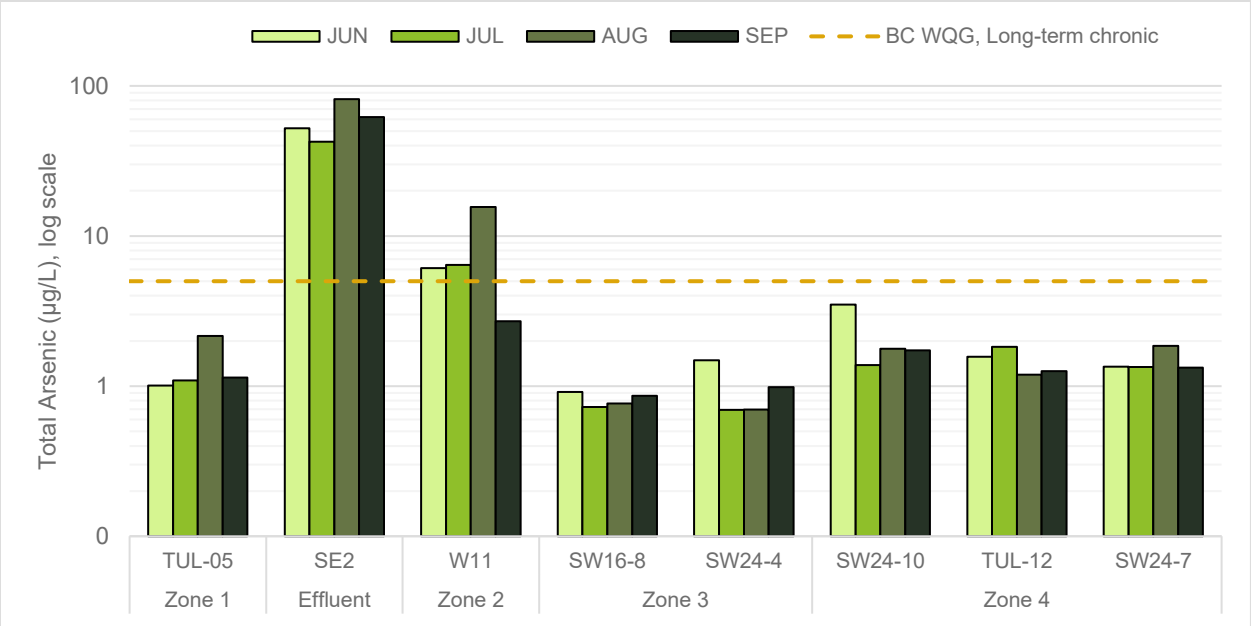
Note: Tributary sites are denoted with (T).

Total Arsenic, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, total arsenic concentrations ranged from 1.1 to 2.16 µg/L (Figure 4.15). In the Effluent Zone, total arsenic concentrations at SE2 ranged from 2.75 to 15.6 µg/L, exceeding the BC WQG (5 µg/L) (Figure 4.15). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, total arsenic concentrations ranged from 2.71 to 15.6 µg/L and exceeded the BCWQG of 5 µg/L in June, July, and August (Figure 4.15). In Zone 3 and Zone 4, total arsenic concentration ranged from 0.695 to 3.49 µg/L and appeared not measurably affected by mine discharges (Figure 4.15). These results indicate that measurable effects of the mine site discharges on total arsenic concentrations were variable and extended to approximately 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.15: Total Arsenic, East Mainstem and Side-Channels (log scale)



4.1.2.3 Dissolved Cadmium

The surface water dissolved cadmium concentration ranged from below the RDL to 0.0206 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.16). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsux̲éi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

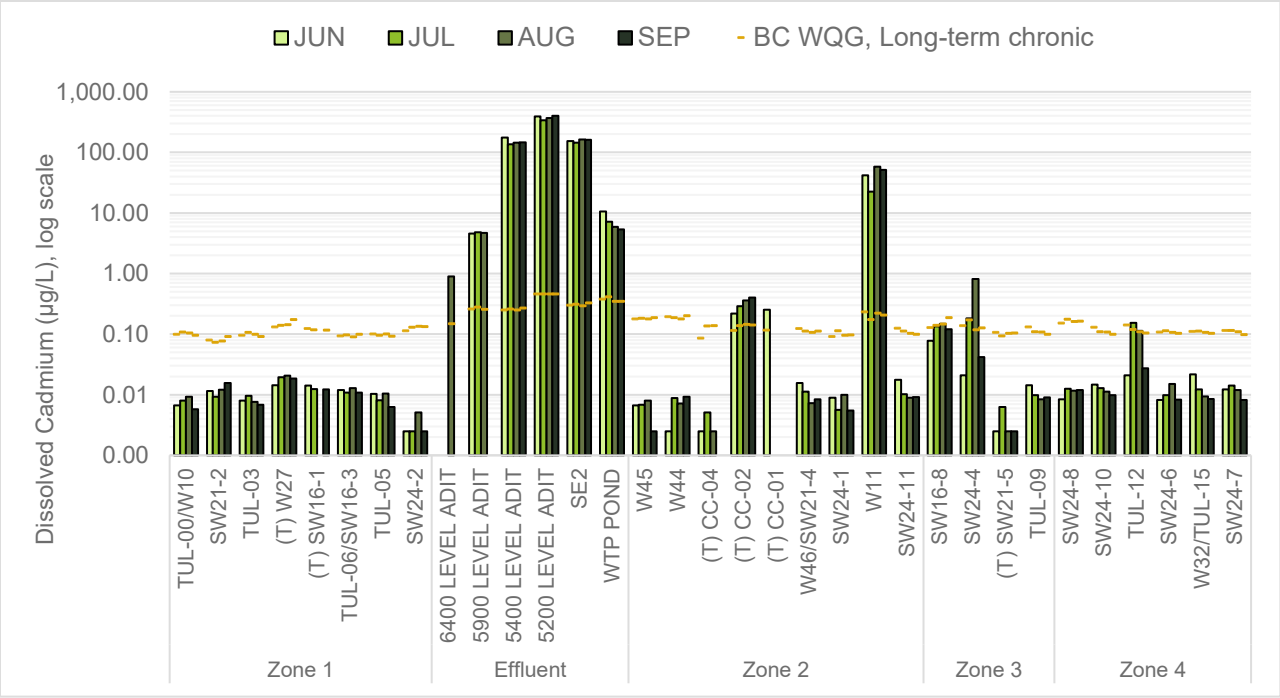
In the Effluent Zone, dissolved cadmium concentrations ranged from 0.892 µg/L at the 6400 Level seep to 403 µg/L at the 5200 Level Adit. Dissolved cadmium concentrations consistently exceeded the BCWQG throughout the Effluent Zone (Figure 4.16).

In Zone 2, the Taaltsux̲éi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges but dissolved cadmium concentrations in the affected reaches of Camp Creek (CC-01, CC-02) ranged from 0.22 to 0.403 µg/L, exceeding BCWQG (Figure 4.16). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved cadmium concentrations ranged from 22.4 to 58.1 µg/L, exceeding the BCWQG (Figure 4.16).

In Zone 3, the Taaltsux̲éi Héen mainstem (TUL-09) appeared not measurably affected by mine discharges. However, cadmium concentrations in the east side channel (SW16-8, SW24-4) were elevated and ranged from 0.0209 to 0.816 µg/L, exceeding BCWQG at SW24-4 in July and August (Figure 4.16).

In Zone 4, dissolved cadmium concentration ranged from 0.0082 to 0.153 µg/L and appeared not measurably affected by mine discharges, except for TUL-12 where concentrations were elevated above BCWQG in July and August (Figure 4.16).

Figure 4.16: Dissolved Cadmium (log scale)



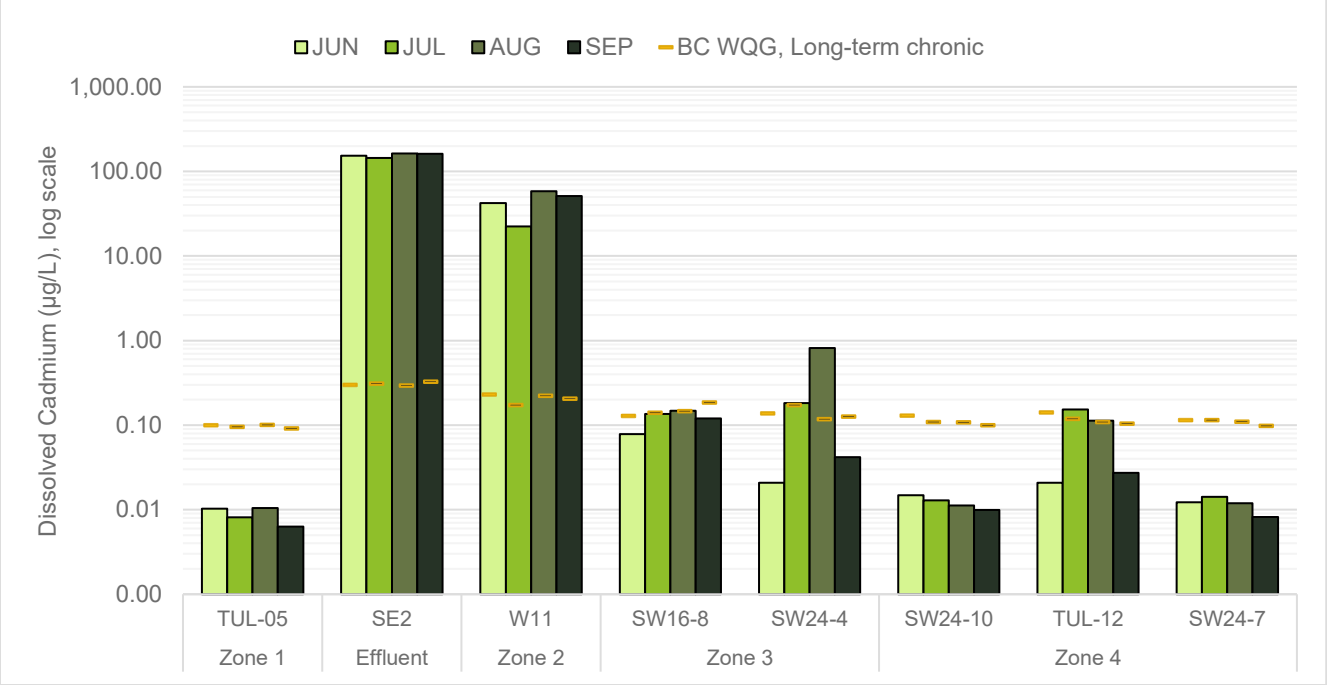
Note: Tributary sites are denoted with (T).

Dissolved Cadmium, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsux̲éi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, dissolved cadmium concentrations ranged from 0.0063 to 0.0105 µg/L (Figure 4.17). In the Effluent Zone, dissolved cadmium concentrations at SE2 ranged from 144 to 163 µg/L and consistently exceeded BCWQG (Figure 4.17). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, dissolved cadmium concentrations ranged from 22.4 to 58.1 µg/L and consistently exceeded the BCWQG (Figure 4.17). In Zone 3, dissolved cadmium concentration ranged from 0.0209 to 0.816 µg/L and exceeded BCWQG at SW24-4 in July and August (Figure 4.17). In Zone 4, dissolved cadmium concentration ranged from 0.0082 to 0.153 µg/L and exceeded BCWQG at TUL-12 in July and August (Figure 4.17). These results indicate that measurable effects of the mine site discharges on dissolved cadmium concentrations were variable, extending 2,000 to 4,200 m downstream in the east mainstem and side-channels of the Taaltsux̲éi Héen but attenuated to background levels at the furthest downstream far-field sites.

Figure 4.17: Dissolved Cadmium, East Mainstem and Side-Channels (log scale)



4.1.2.4 Dissolved Copper

With the recent revision of the BCWQG for copper (ENV 2019a), the site-specific copper WQG are now extremely low for freshwaters with minimal concentrations of DOC. In the Taaltsuxéi Héen, the median DOC was below detection limit and consequently the site-specific WQG for dissolved copper was only 0.2 µg/L at all locations, except at the WTP Pond.

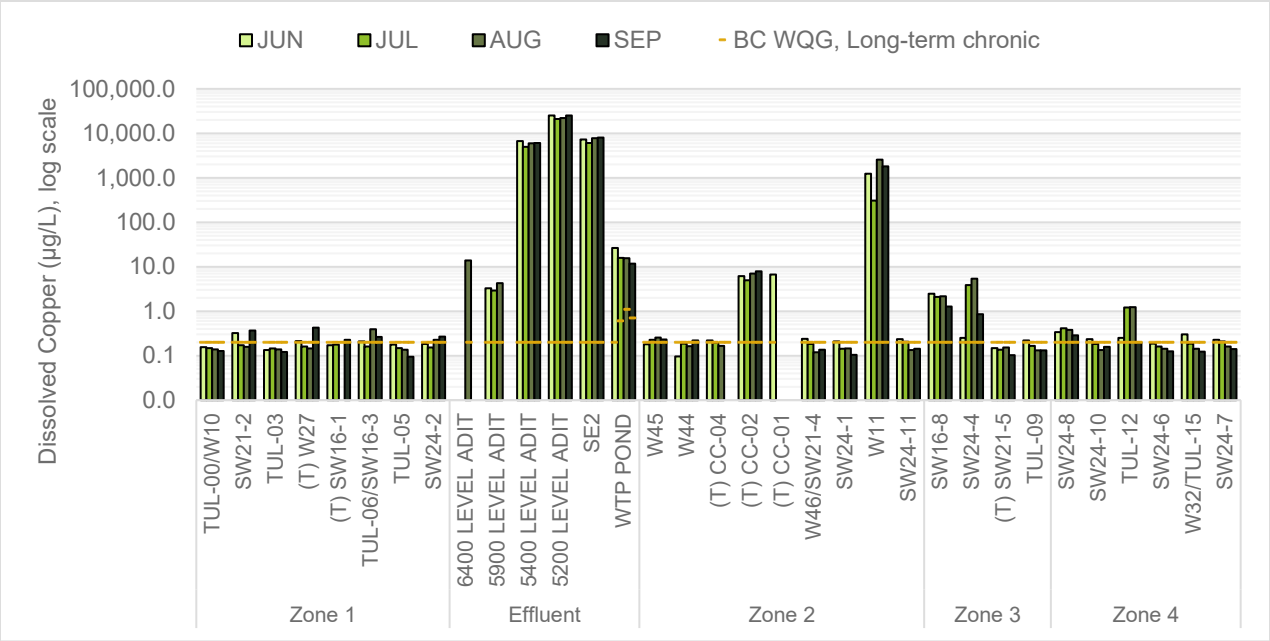
The surface water dissolved copper concentration ranged from 0.095 to 0.425 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2, resulting in exceedances in BCWQG (Figure 4.18). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

In the Effluent Zone, dissolved copper concentrations ranged from 2.94 µg/L at the 5900 Level Adit to 25,200 µg/L at the 5200 Level Adit. Dissolved copper concentrations consistently exceeded the BCWQG throughout the Effluent Zone (Figure 4.18).

In Zone 2, the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges but dissolved copper concentrations in the affected reaches of Camp Creek (CC-01, CC-02) ranged from 4.97 to 7.84 µg/L, exceeding BCWQG (Figure 4.18). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved copper concentrations ranged from 307 to 1,800 µg/L (comparable to concentrations in the mine discharge), exceeding the BCWQG (Figure 4.18).

In Zone 3 and 4, dissolved copper concentrations in the Taaltsuxéi Héen mainstem appeared comparable to reference concentrations in Zone 1, except for SW16-8, SW24-24, and TUL-12, where concentrations ranged from 0.198 to 5.42 µg/L, resulting in exceedances of up to 27.1 times the BCWQG (Figure 4.18).

Figure 4.18: Dissolved Copper (log scale)



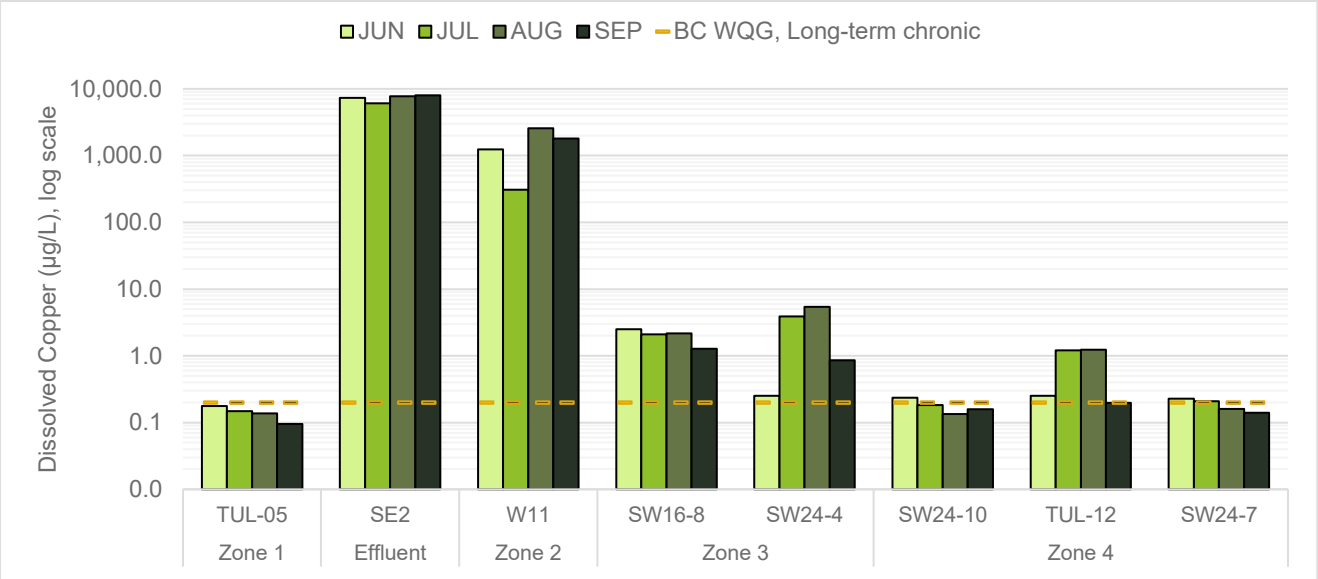
Note: Tributary sites are denoted with (T).

Dissolved Copper, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsux̲éi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, dissolved copper concentrations ranged from 0.095 to 0.177 µg/L (Figure 4.19). In the Effluent Zone, dissolved copper concentrations at SE2 ranged from 6,100 to 8,020 µg/L, exceeding the BCWQG (Figure 4.19). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, dissolved copper concentrations ranged from 307 to 2,570 µg/L and consistently exceeded the BCWQG (Figure 4.19). In Zone 3, dissolved copper concentration ranged from 0.253 to 5.42 µg/L and consistently exceeded BCWQG (Figure 4.19). In Zone 4, dissolved copper concentrations were comparable with reference concentrations in Zone 1 but exceeded BCWQG at TUL-12 (Figure 4.19). These results indicate that measurable effects of the mine site discharges on dissolved copper concentrations were variable, extending 2,000 to 4,200 m downstream in the east mainstem and side-channels of the Taaltsux̲éi Héen but attenuated to background levels at the furthest downstream far-field sites.

Figure 4.19: Dissolved Copper, East Mainstem and Side-Channels (log scale)



4.1.2.5 Dissolved Iron

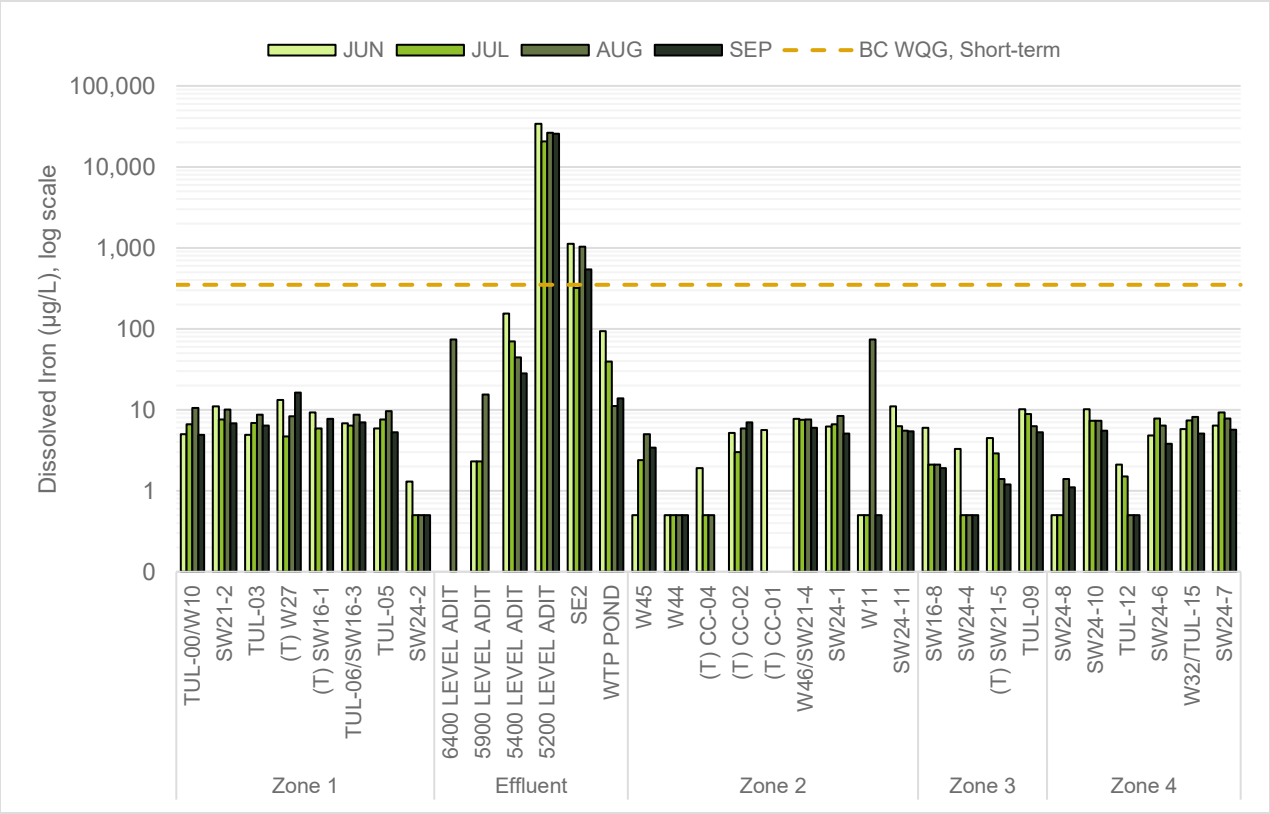
The surface water dissolved iron concentration ranged from below the RDL to 16.3 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.20). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsux̲éi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

In the Effluent Zone, dissolved iron concentrations ranged from 2.3 µg/L at the 5900 Level Adit to 34,200 µg/L at the 5200 Level Adit. Dissolved iron concentrations exceeded the BCWQG at the 5200 Level Adit and SE2 (Figure 4.20).

In Zone 2, the Taaltsux̲éi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) and Camp Creek (CC-01, CC-02, CC-04) appeared not measurably affected by mine discharges (Figure 4.20). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved iron concentrations were below the RDL except for a spike of 73.7 µg/L in August (Figure 4.20). No exceedances of the BCWQG of 350 µg/L occurred.

In Zone 3 and Zone 4, dissolved iron concentration ranged from below the RDL to 10.2 µg/L and appeared not measurably affected by mine discharges, indicating rapid attenuation of dissolved iron in the Taaltsux̲éi Héen (Figure 4.20).

Figure 4.20: Dissolved Iron (log scale)



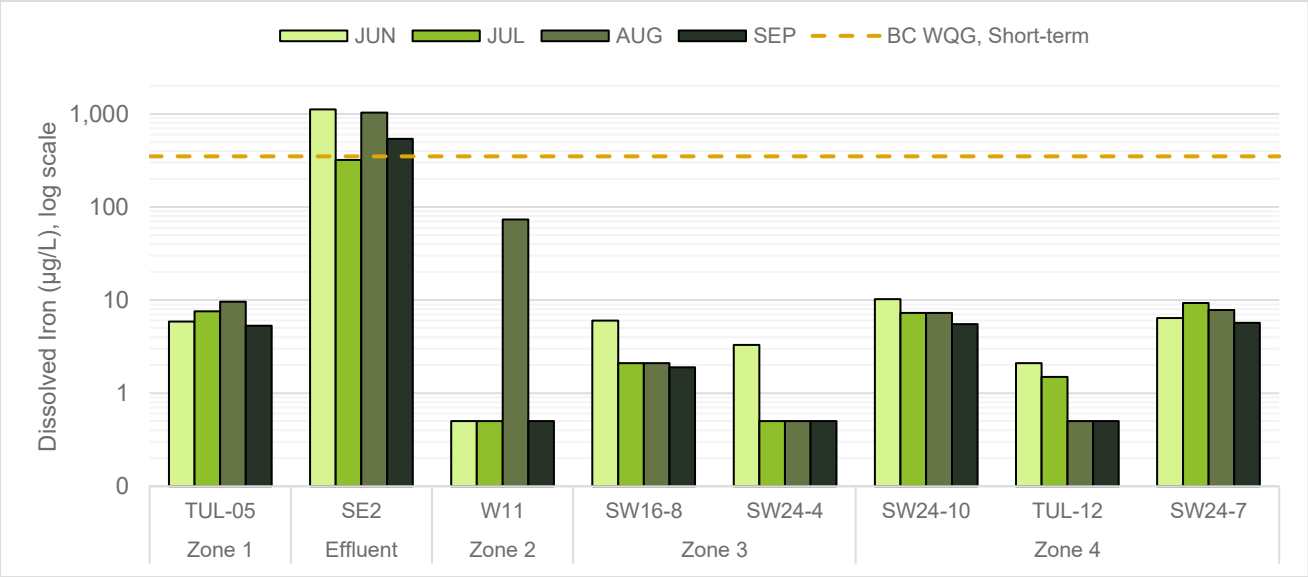
Note: Tributary sites are denoted with (T).

Dissolved Iron, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, dissolved iron concentrations ranged from 5.3 to 9.6 µg/L (Figure 4.21). In the Effluent Zone, dissolved iron concentrations at SE2 ranged from 320 to 1,120 µg/L, exceeding BCWQG in June, August, and September (Figure 4.21). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved iron concentrations were below the RDL except for a spike of 73.7 µg/L in August (Figure 4.21). No exceedances of the BCWQG (350 µg/L) occurred. In Zone 3 and Zone 4, dissolved iron concentration ranged from below the RDL to 7.3 µg/L and appeared not measurably affected by mine discharges (Figure 4.21). These results indicate that measurable effects of the mine site discharge on dissolved iron concentrations rapidly attenuated but seasonally extended between 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.21: Dissolved Iron, East Mainstem and Side-Channels (log scale)



4.1.2.6 Dissolved Lead

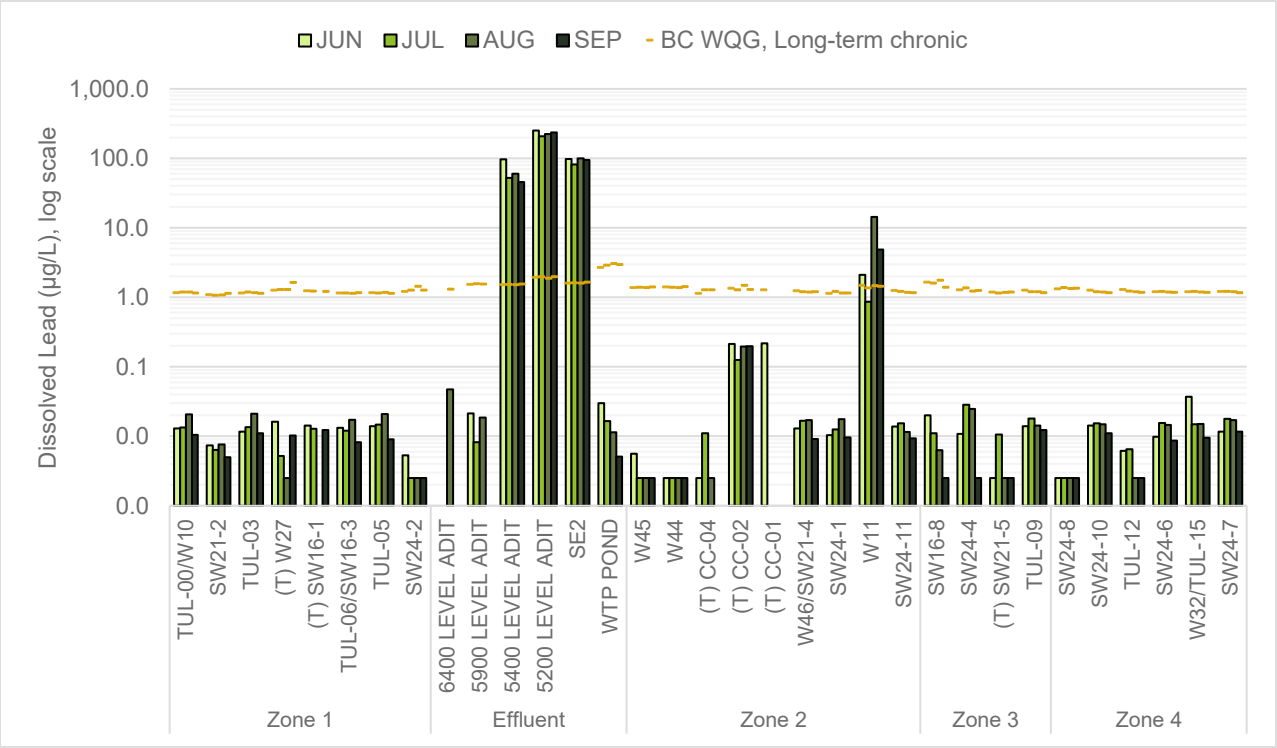
The surface water dissolved lead concentration ranged from below the RDL to 0.0211 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.22). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsux̲éi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

In the Effluent Zone, dissolved lead concentrations ranged from 0.0051 µg/L at the WTP Pond to 251 µg/L at the 5200 Level Adit. Dissolved lead concentrations consistently exceeded the site-specific BCWQG at the 5400 Level Adit, 5200 Level Adit, and SE2 (Figure 4.22).

In Zone 2, the Taaltsux̲éi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.22). Lead concentrations were elevated in the affected reaches of Camp Creek (CC-01, CC-02) but remained below the site-specific BCWQG (Figure 4.22). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved lead concentrations ranged from 0.863 to 14.3 µg/L and exceeded the site-specific BCWQG in June, August, and September (Figure 4.22).

In Zone 3 and Zone 4, dissolved lead concentration ranged from below the RDL to 0.0372 µg/L and appeared not measurably affected by mine discharges (Figure 4.22). These results indicate that measurable effects of the mine site discharge on dissolved iron concentrations rapidly attenuated but seasonally extended between 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsux̲éi Héen.

Figure 4.22: Dissolved Lead (log scale)



Note: Tributary sites are denoted with (T).

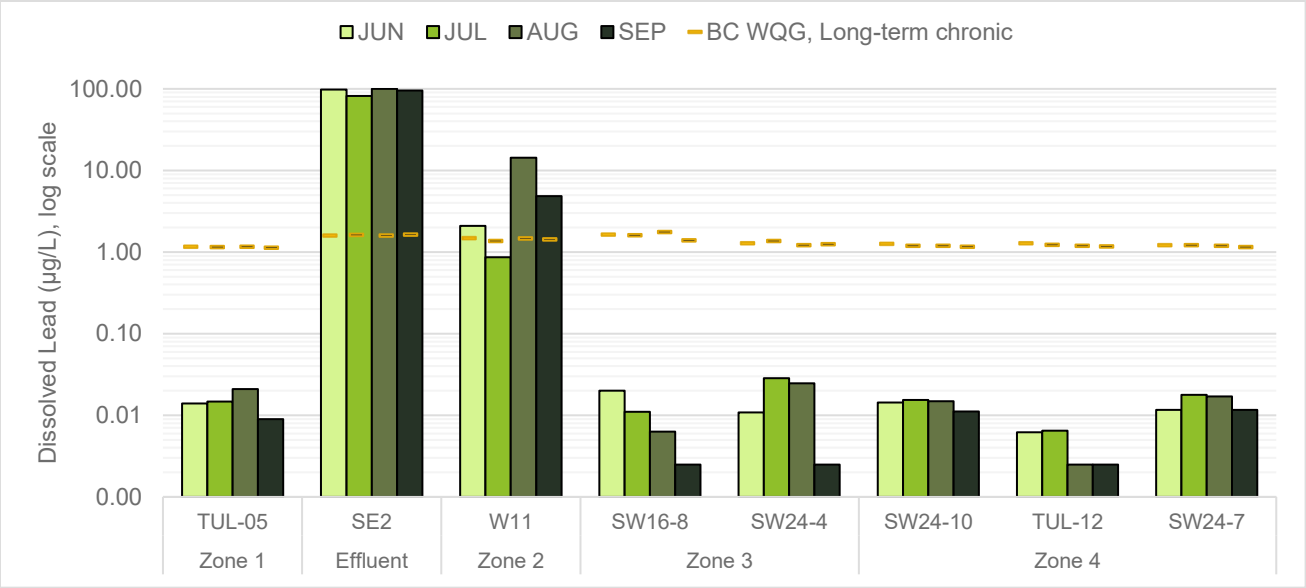
Dissolved Lead, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, dissolved lead concentrations ranged from 0.009 to 0.021 µg/L (Figure 4.23). In the Effluent Zone, dissolved lead concentrations at SE2 ranged from 82.1 to 100 µg/L, consistently exceeding the site-specific BCWQG (Figure 4.23). At W11, located in the east channel approximately 250 m downstream of the mine site in Zone 2, dissolved lead concentrations ranged from 0.863 to 14.3 µg/L and exceeded the site-specific BCWQG in June, August, and September
(Figure 4.23).

In Zone 3 and 4, dissolved lead concentration ranged from below the RDL to 0.0285 µg/L and appeared not measurably affected by mine discharges (Figure 4.23). These results indicate that measurable effects of the mine site discharge on dissolved lead concentrations were variable and extended between 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen.

Figure 4.23: Dissolved Lead, East Mainstem and Side-Channels (log scale)



4.1.2.7 Dissolved Manganese

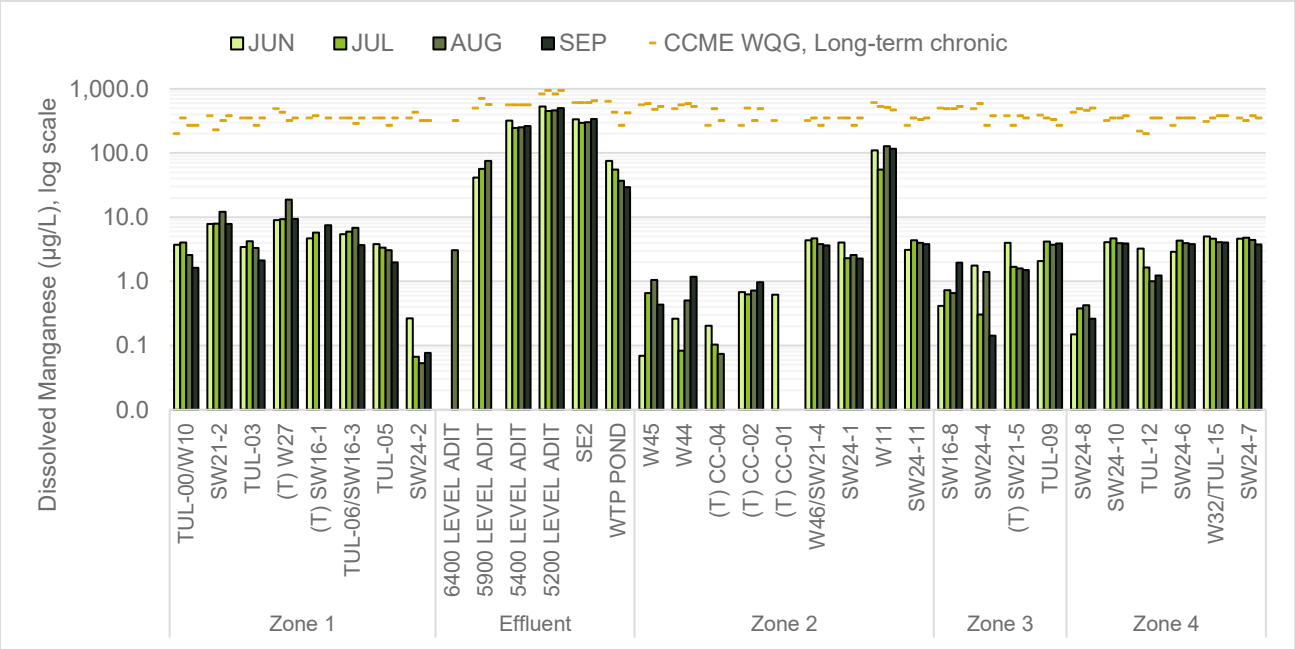
The surface water dissolved manganese concentration ranged from 0.053 to 18.8 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.24). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsux̲éi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4).

In the Effluent Zone, dissolved manganese concentrations ranged from 3.05 µg/L at the 6400 Level seep to 533 µg/L at the 5200 Level Adit. Despite the up to 100-fold increase compared to background levels, dissolved manganese concentrations did not exceed 65% of the site-specific CCME WQG throughout the Effluent Zone (Figure 4.24).

In Zone 2, Camp Creek (CC-01, CC-02, CC-04) and the Taaltsux̲éi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges (Figure 4.24). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved manganese concentrations ranged from 55.2 to 128 µg/L (Figure 4.24), but never exceeded 30 % of the site-specific BCWQG (Figure 4.24).

In Zone 3 and Zone 4, dissolved manganese concentration ranged from 0.143 to 5.03 µg/L and appeared not measurably affected by mine discharges (Figure 4.24). These results indicate that measurable effects of the mine site discharge on dissolved manganese concentrations extended between 250 to 1,000 m downstream in the east mainstem and side-channels of the Taaltsux̲éi Héen.

Figure 4.24: Dissolved Manganese (log scale)



4.1.2.8 Dissolved Zinc

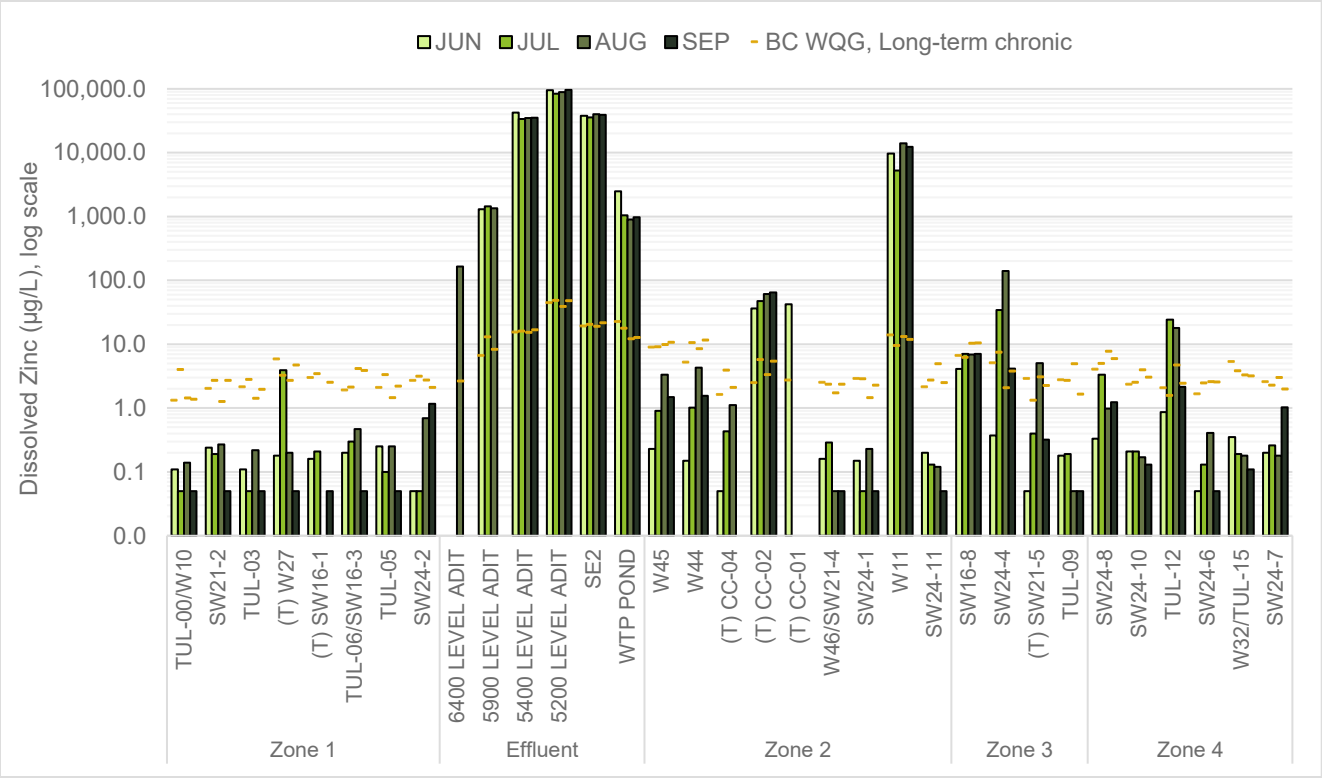
The surface water dissolved zinc concentration ranged from below the RDL to 4.32 µg/L in Zone 1 and locations unaffected by mine discharge in Zone 2 (Figure 4.25). Locations unaffected by mine discharge in Zone 2 are on the west side of the Taaltsuxéi Héen (W44, W45, SW24-1) and in Camp Creek upstream of the mine site (CC-04) (Appendix A, Figures A.3 and A.4). An exceedance of BCWQG was observed in Shazah Creek (W27) in July (Figure 4.25).

In the Effluent Zone, dissolved zinc concentrations ranged from 164 µg/L at the 6400 Level seep to 96,800 µg/L at the 5200 Level Adit. Dissolved zinc concentrations consistently exceeded the BCWQG throughout the Effluent Zone (Figure 4.25).

In Zone 2, the Taaltsuxéi Héen mainstem (W46/SW21-4, SW21-4, SW24-11) appeared not measurably affected by mine discharges but dissolved zinc concentrations in the affected reaches of Camp Creek (CC-01, CC-02) ranged from 36.5 to 64.8 µg/L, exceeding BCWQG (Figure 4.25). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved zinc concentrations ranged from 5,280 to 14,000 µg/L (comparable to concentrations in the mine discharge), exceeding the BCWQG (Figure 4.25).

In Zone 3 and 4, dissolved zinc concentrations in the Taaltsuxéi Héen mainstem appeared comparable to reference concentrations in Zone 1, except for SW16-8, SW24-24, and TUL-12, where concentrations ranged from 0.37 to 140 µg/L, exceeding BCWQG (Figure 4.25).

Figure 4.25: Dissolved Zinc (log scale)



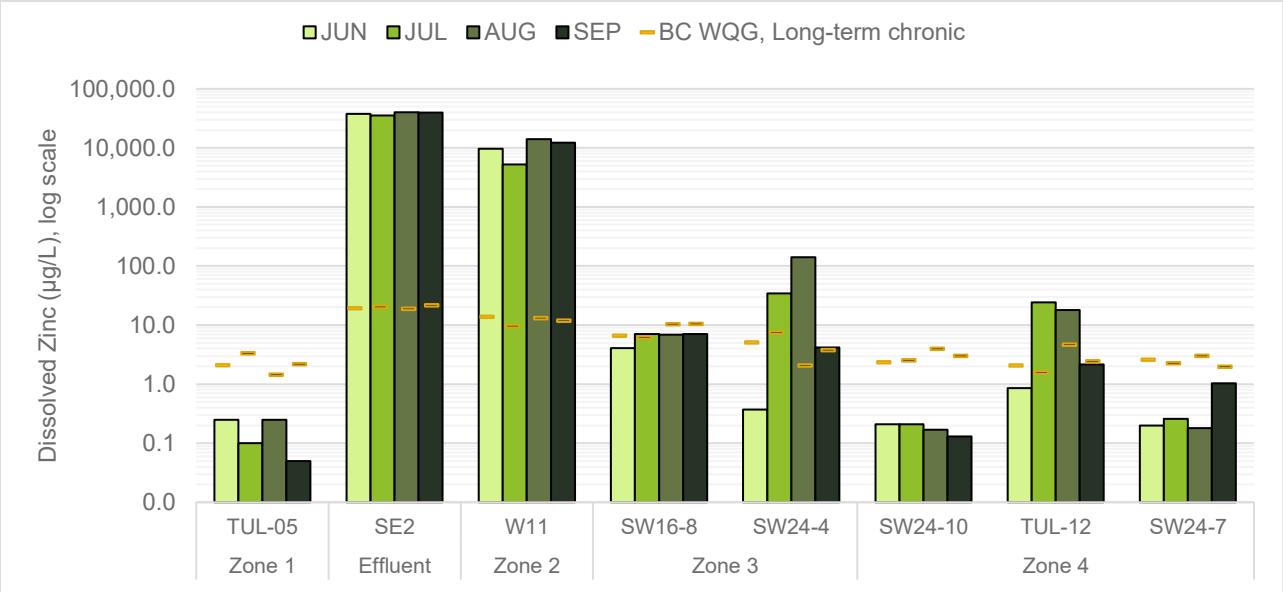
Note: Tributary sites are denoted with (T).

Dissolved Zinc, East Mainstem and Side-Channels

The spatial variability was assessed using one location upstream (TUL-05), the mine discharge at the exfiltration pond (SE2), and six locations downstream of the mine site to represent the flow path of increasingly diluted mine discharge in the east mainstem and side-channels of the Taaltsuxéi Héen through Zones 2 (W11), Zone 3 (SW16-8, SW24-4), and Zone 4 (SW24-10, TUL-12, SW24-7).

At the upstream reference site TUL-05, dissolved zinc concentrations ranged from below the RDL to 0.25 µg/L (Figure 4.26). In the Effluent Zone, dissolved zinc concentrations SE2 ranged from 899 to 96,800 µg/L, consistently exceeding the BCWQG (Figure 4.26). At W11, located in the east channel approximately 250 m downstream of the mine site, dissolved zinc concentrations ranged from 5,280 to 14,000 µg/L (comparable to concentrations in the mine discharge), exceeding the BCWQG (Figure 4.26). In Zone 3 and 4, dissolved zinc concentrations in the Taaltsuxéi Héen mainstem appeared comparable to reference concentrations in Zone 1, except for SW16-8, SW24-24, and TUL-12, where concentrations ranged from 0.37 to 140 µg/L, exceeding BCWQG (Figure 4.26). These results indicate that measurable effects of the mine site discharges on dissolved zinc concentrations were variable, extending 2,000 to 4,200 m downstream in the east mainstem and side-channels of the Taaltsuxéi Héen but attenuated to background levels at the furthest downstream far-field sites.

Figure 4.26: Dissolved Zinc, East Mainstem and Side-Channels (log scale)



4.1.2.9 Other Exceedances

In addition to the previously identified COPCs, exceedances of Approved or Working BCWQG were identified for total beryllium, total chromium (non-speciated analysis), dissolved cobalt, total iron, total mercury (depending on the percentage of mercury present as methyl-mercury), dissolved nickel, and total thallium.

Total beryllium concentrations exceeded the Working BCWQG of 2.5 µg/L at one instance in Zone 1 (TUL-00/W10 in August) and at SE2, 5200 Level Adit, and 5400 Level Adit in the Effluent Zone (Table 4.1, Appendix C2). However, concentrations were below the Working BCWQG approximately 250 m downstream of the mine site (W11).

Non-speciated total chromium concentrations exceeded the Working BCWQG of 0.13 µg/L at eleven instances at six sites in Zone 1 (TUL-00/W10, SW21-2, TUL-03, TUL-05, SW16-1, W27), indicating elevated background levels (Appendix C2). In the Effluent Zone, total chromium concentrations exceeded Working BCWQG at the 5200 Level Adit but not SE2 (Table 4.1, Appendix C2). Total chromium concentrations were below Working BCWQG at W11, located 250 m downstream of the mine effluent (Table 4.1, Appendix C2). In Zones 2 through 4, total chromium concentrations were above Working BCWQG at thirteen instances, predominantly in mainstem sites (Appendix C2). These results suggest that elevated total chromium concentrations in the Taaltsuxéi Héen are likely naturally occurring, and the effects of the mine discharge were limited.

Dissolved cobalt concentrations exceeded the site-specific Approved BCWQG throughout the Effluent Zone and at W11 (Table 4.1, Appendix C2). No exceedances occurred through Zone 3 and 4 (Table 4.1, Appendix C2).

Total iron exceeded the Approved short-term BCWQG of 1,000 µg/L throughout mainstem sites in Zone 1 (TUL-00/W10, SW21-2, TUL-03, TUL-05, TUL-06/SW16-3, SW16-2), indicating elevated background levels (Appendix C2). In the Effluent Zone, total iron concentrations exceeded Working BCWQG the 5200 and 5400 Level Adit and SE2 (Table 4.1, Appendix C2). In Zones 2 through 4, total iron concentrations exceeded BCWQG at W11 (July, August) and 21 other instances, predominantly in mainstem sites (Appendix C2). These results suggest that

higher total iron concentrations in the Taaltsuxéi Héen are likely naturally occurring, but mine discharge contributed to further elevated concentrations.

For total mercury concentrations, the Approved BCWQG long-term guideline applied for screening purposes were the most stringent above the RDL (0.002 µg/L) and least stringent (0.02 µg/L), assuming 5% and 0.5% of total mercury was present as methylmercury, respectively. The RDL for total mercury analysis was 0.0019 µg/L. Of 125 samples analysed in 2025, 90 had concentrations below the RDL, while 31 samples with concentrations above the RDL exceeded the most stringent applied guideline (Appendix C2). No sample exceeded the least stringent guideline. The highest recorded concentration was 0.0159 µg/L in Shazah Creek (W27) in June (Appendix C2).

Dissolved nickel concentrations exceeded site-specific Approved BCWQG at two instances in Zone 1 (SW21-2), in the Effluent Zone (SE2, 5200 and 5400 Level Adit), and at W11 (Table 4.1, Appendix C2).

Total thallium concentrations exceeded the Working BCWQG of 0.03 µg/L at nine instances in Zone 1 (TUL-00/W10, SW21-2, TUL-03, TUL-05, TUL-06/SW16-3, W27), indicating elevated background levels (Appendix C2). In the Effluent Zone, total thallium concentrations exceeded Working BCWQG the 5200 and 5400 Level Adit and SE2 (Table 4.1, Appendix C2). In Zones 2 through 4, total thallium concentrations exceeded Working BCWQG at W11 and eleven other instances, predominantly in mainstem sites (Appendix C2). These results suggest that higher total thallium concentrations in the Taaltsuxéi Héen are likely naturally occurring, but mine discharge contributed to further elevated concentrations.

4.2 Hydrology

The discharge measurements represent a point-in-time assessment of flow dynamics around the mine site and in receiving environments. As discharge measurements were not collected simultaneously at all locations, there is variability in comparing values due to differing conditions at the time of measurement. Nonetheless, the data presented in Table 4.2 below offer a general basis for comparing discharge rates between sites.

The Taaltsuxéi Héen is a heavily braided system where flow is divided among multiple interconnected channels. While the total flow in the Taaltsuxéi Héen was not estimated at any time or location, the sum of measurements at SW24-6 and SW24-7 in Zone 4 can provide a very general indication of flow magnitude in the Taaltsuxéi Héen in comparison to other flows, such as discharge from the mine site. These values represent only a portion of the overall flow within the braided system, as measuring the discharge in the mainstem, at W32/TUL-15 for example, was not feasible within the agreed monitoring scope.

Table 4.2: 2025 Discharge Measurements

Zone	Site ID	Method	Discharge (m^3/s)			
			JUN	JUL	AUG	SEP
Zone 1	SW21-2	Area-Velocity	---	---	6.853	7.767
	TUL-03	Area-Velocity	6.1	9.4	---	8.5
	TUL-06/ SW16-3	Area-Velocity	---	12.8	9.8	16.0
Tributary (Zone 1)	W27	Area-Velocity	---	---	9.133	11.396
	SW24-2	Salt Dilution	0.562	0.142	0.058	0.072
Effluent	5900 Level Adit	Volumetric	0.00016	0.00018	0.00017	---
	5400 Clean Water Pipe	Volumetric	0.0019	---	---	---
	5400 Level Adit	Area-Velocity	0.003	0.009	0.007	0.007
	5200 Level Adit	Volumetric (JUN) Salt Dilution (JUL – SEP)	0.0029	0.0028	0.0032	0.0026
	SE2	Area-Velocity	0.01	0.02	---	0.01
Zone 2	W45	Visual Estimate	<0.1	<0.1	<0.1	<0.1
	W44	Visual Estimate	<0.1	<0.1	<0.1	<0.1
Tributary (Zone 2)	CC-04	Salt Dilution	0.169	0.054	0.026	---
	CC-02	Salt Dilution	0.186	0.089	0.071	0.057
Tributary (Zone 3)	SW21-5	Area-Velocity	3.443	3.026	1.617	2.108
Zone 4	SW24-6	Area-Velocity	18.272	26.423	13.747	9.115
	SW24-7	Visual Estimate (JUL) Area-Velocity (SEP)	---	45 ± 5	---	8.900
	SW24-8	Area-Velocity	0.132	0.300	0.260	0.113
	TUL-12	Area-Velocity	5.11	3.63	2.00	2.14
Tributary (Zone 4)	SW24-5	Salt Dilution	0.381	---	---	---

Note:
--- = no measurement collected
0.001 m^3/s is equal to 1 L/s

Key considerations and measurement challenges at specific sites are summarized below:

- As mentioned in Table 2.2, the “5400 Clean Water Pipe” was removed from the adit prior to the July 2025 monitoring program; hence water that was previously intercepted by this pipe became part of the discharge from the 5400 Level Adit.
- The 5400 Level Adit and SE2 channels were shallow and had limited mixing length, making them unsuitable for accurate discharge measurement by any method. The FlowTracker2 was used nonetheless. To reflect the inherent uncertainty, the measurements at the 5400 Level Adit were treated as approximate and discharge values were rounded to one significant figure.
- Outflow from 5900 and 5200 Level adits showed the least variations between the monitoring events.
- At locations W44 and W45, flow was characterized by a wide, shallow, and low gradient channel which was not compatible with any of the three discharge measurement methods described, so visual estimates were recorded by the field crew.
- The TUL-03 and TUL-06/SW16-3 transects are characterized by large boulders and an uneven channel bottom, reducing the accuracy of the transect area measurement and the overall calculated discharge.
- In July, measurement with the FlowTracker2 at SW24-7 was aborted midway across the nearly 80 m wide channel as increasing valley winds made the tagline unmanageable. Based on observed channel characteristics, the partial measurement of 23 m^3/s for half of the channel was extrapolated to an estimated discharge of 45 ± 5 m^3/s at SW24-7. Although extrapolation is not standard practice, it can provide a high-level estimate of potential discharge when full measurements are not feasible. This approach assumes that channel morphology in the unmeasured portion is similar to that of the measured section. In this case, field staff selected the cross-section for its relatively laminar flow and had a good sense of channel symmetry from wading across to setup the tagline. This method is classified as an estimate in Table 4.2 as it carries a high degree of uncertainty.

Combining discharge from SW24-6 and SW24-7 indicates that flow of the Taaltsu̲éi Héen in Zone 4 during the July monitoring program exceeded 71 m^3/s and was greater than 18 m^3/s during the September program.

By comparison, discharge from the mine site ranged between approximately 0.01 m^3/s and 0.02 m^3/s. Despite the relatively low flow rates of the mine site discharges, measurable increases in concentrations of COPCs were observed in the Taaltsu̲éi Héen downstream of these inputs (see Section 4.1.2).

4.3 Sediment

The full set of sediment chemistry data are contained within Appendix D2. A summary of exceedances of the relevant sediment quality guidelines is provided in Table 4.3. The discussion below focuses on the metals with established environmental benchmarks, those identified as COPC in surface waters, and/or those with the potential for biomagnification (i.e., mercury and selenium). Note that both the mean and median are provided in the figures, however only the mean data are discussed in the text.

Table 4.3: Summary of Sediment Quality Exceedances

			Aluminum	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Zinc
		ISGQ	no standard	5.9	0.6	37.3	35.7	21200	35.0	0.17	2[1]	123
		PEL	no standard	17	3.5	90	197	43766	91.3	0.486	no standard	315
Zone	**Site**	**Month**	**Mean (mg/kg dry wt)**									
Zone 1	TUL-00-AEMP25	JUN	8876	4.8	0.1	18.8	20.0	18100	4.4	0.054	0.5	43
		SEP	6554	2.8	0.1	12.6	14.1	15820	3.1	0.050	0.5	31
	TUL-06-AEMP25	JUN	8278	**6.3**	0.2	32.7	**50.0**	**21820**	4.6	0.065	0.6	55
		SEP	7736	3.6	0.2	25.4	35.1	16960	3.6	0.054	0.5	42
Zone 2	W11-AEMP25	JUN	12520	**27.98**	**4.1**	35.6	**731**	**29160**	30.0	0.084	0.9	**860**
		SEP	12820	**39.24**	**4.7**	33.0	**1936**	**30540**	**67.6**	0.138	1.0	**1199**
	SW24-11-AEMP25	JUN	11960	**47.22**	**0.9**	**49.7**	**49.8**	**43320**	10.4	0.124	1.6	**130**
		SEP	12940	**54.96**	**1.0**	**43.0**	**54.5**	**33620**	11.5	0.137	1.9	**138**
Zone 3	SW16-8-AEMP25	JUN	10038	**26.94**	**1.6**	35.8	**89.9**	**31040**	19.7	0.103	1.0	**259**
		SEP	10662	**26.54**	**2.0**	30.5	**96.2**	**27020**	23.4	0.105	0.9	**281**
	TUL-09-AEMP25	JUN	10800	**65.32**	**1.1**	**40.6**	**48.0**	**33080**	10.9	0.147	**2.0**	**145**
		SEP	9598	**26.38**	0.5	29.7	**41.4**	**24860**	6.8	0.050	1.0	82
Zone 4	SW24-7-AEMP25	JUN	10880	**43.38**	**0.9**	35.5	**44.5**	**30120**	9.3	0.166	1.5	**125**
		SEP	11600	**30**	**0.6**	35.6	**50.0**	**31300**	9.5	0.053	0.9	109

Notes:
[1] based on BC Working Sediment Quality Guidelines for Aquatic Life, Wildlife and Agriculture
ISGQ = Interim Sediment Quality Guideline
PEL = Probably Effects Limit
bold = exceedance of the ISGQ
bold red and shaded = exceedance of the PEL

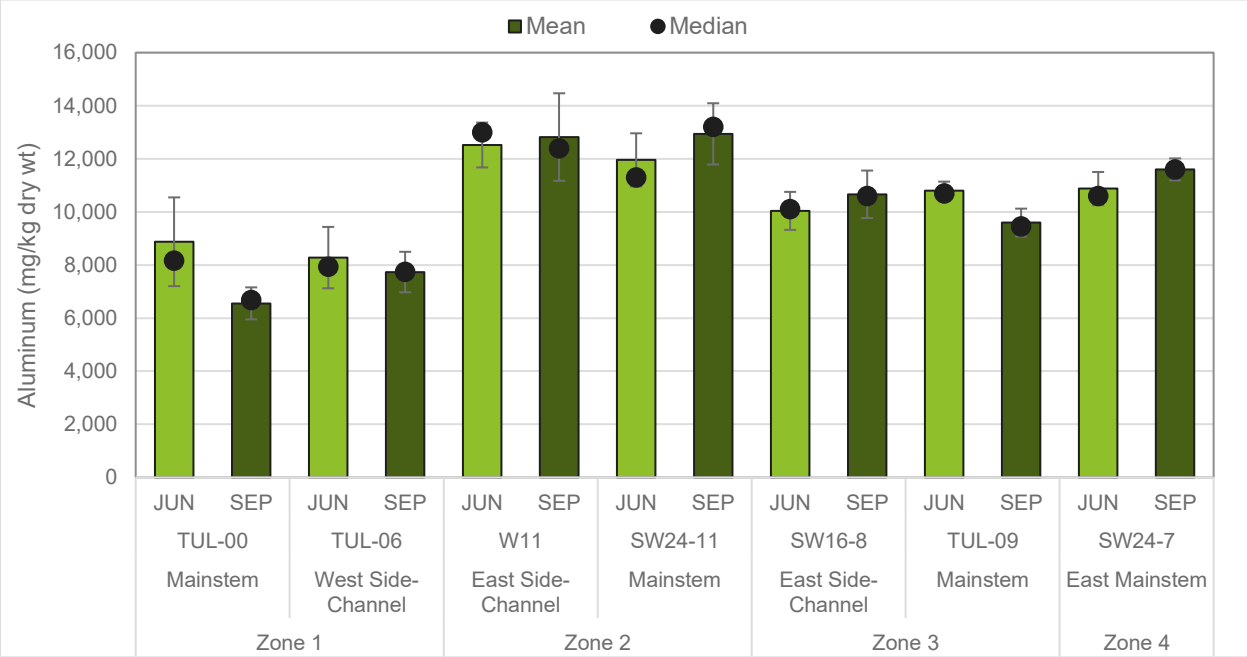
4.3.1 Aluminum

The mean aluminum content of the fine sediment (<2 mm) in June ranged from approximately 8,278 mg/kg dry weight at upstream reference site TUL-06 to approximately 12,520 mg/kg dry weight at exposure site W11 (Figure 4.27). The mean aluminum content of the fine sediment in September ranged from approximately 6,554 mg/kg dry weight at upstream reference site TUL-00 to 12,940 mg/kg dry weight at site SW24-11 in Zone 2 on the mainstem (Figure 4.27).

The mean sediment aluminum content was elevated at exposure site W11 and downstream impact sites SW16-8, TUL-09 and SW24-7. However, aluminum content was also elevated at SW24-11, which located on the central mainstem unaffected by mine site discharge, indicating that the accumulation of aluminum in the Taaltsuxéi Héen may be caused by a combination of natural occurrence and mine site discharge (Figure 4.27).

There are no environmental benchmarks for aluminum, so it was not possible to assess sediment quality related to aluminum content.

Figure 4.27: Sediment Aluminum Content (mg/kg dry weight)



4.3.2 Arsenic

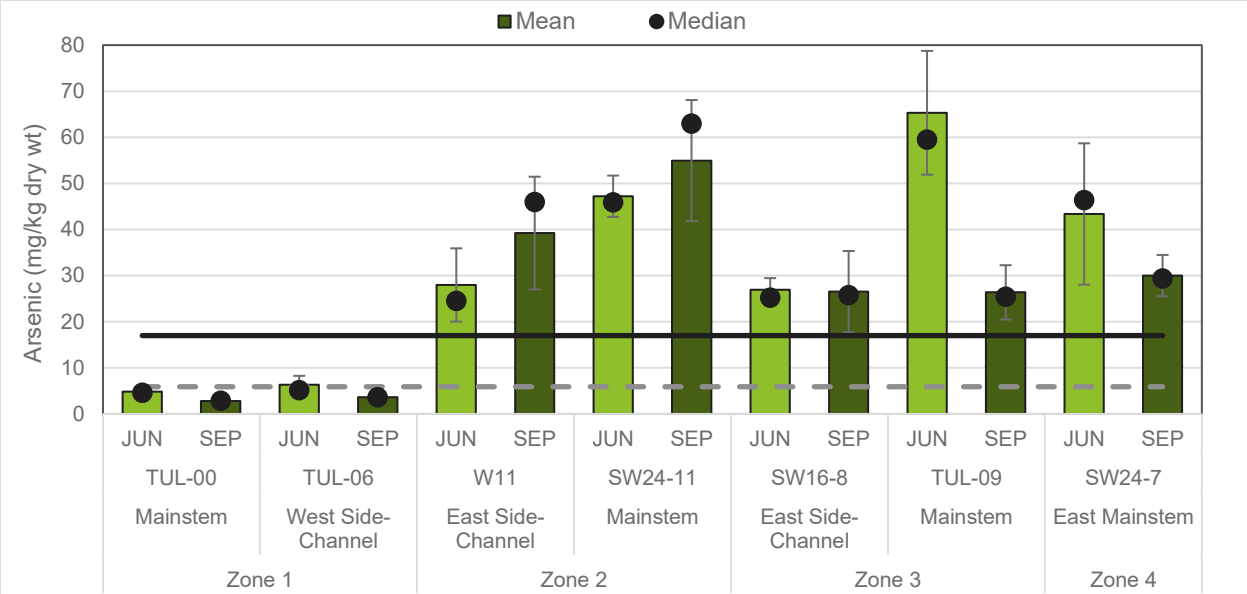
The mean arsenic content of the fine sediment (<2 mm) in June ranged from approximately 4.8 mg/kg dry weight at upstream reference site TUL-00 to approximately 65.3 mg/kg dry weight at downstream impact site TUL-09 (Figure 4.28). The mean arsenic content of the fine sediment in September ranged from approximately 2.8 mg/kg dry weight at upstream reference site TUL-00 to approximately 55.0 mg/kg dry weight at downstream impact site SW24-11 (Figure 4.28).

The mean sediment arsenic content was elevated at exposure sites W11 and downstream impact sites SW16-8, SW24-7 and TUL-09. However, arsenic content was also elevated at site SW24-11, located on the west channel of the mainstem unaffected by mine site discharge,

indicating that the accumulation of arsenic in the Taaltsuxéi Héen may be caused by a combination of natural occurrence and mine site discharge (Figure 4.28).

The mean sediment arsenic content exceeded the ISQG at six of the seven sites, and the PEL at five of those sites in June. In September, the mean sediment arsenic content exceeded the ISQG and the PEL at five of the seven sites (Figure 4.28). These data indicate that arsenic content in the sediment is elevated at sites W11, SW24-11, SW16-8, TUL-09 and SW24-7 to a level potentially associated with frequent adverse biological effects.

Figure 4.28: Sediment Arsenic Content (mg/kg dry weight)



Note: The lower grey dashed line represents the Interim Sediment Guideline (ISQG), and the upper black solid line represents the Probable Effects Level (PEL).

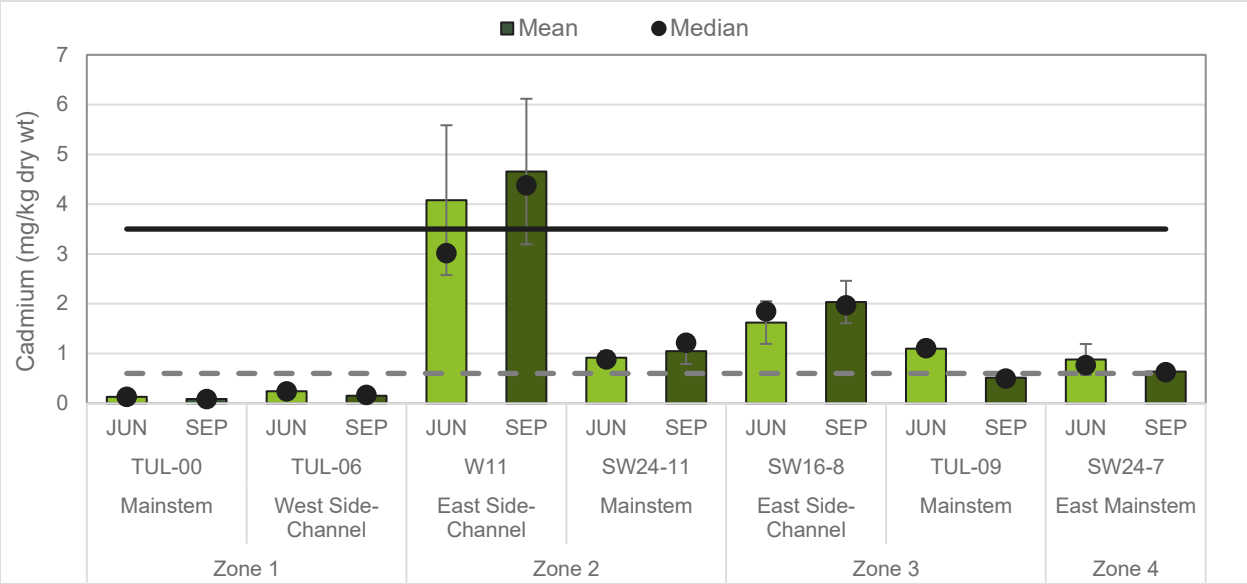
4.3.3 Cadmium

The mean cadmium content of the fine sediment (<2 mm) in June ranged from approximately 0.9 mg/kg dry weight at upstream reference site TUL-00 to approximately 4.1 mg/kg dry weight at exposure site W11 (Figure 4.29). The mean cadmium content of the fine sediment in September ranged from approximately 0.1 mg/kg dry weight at upstream reference site TUL-00 to approximately 4.7 mg/kg dry weight at exposure site W11 (Figure 4.29).

The elevated mean sediment cadmium content at exposure site W11 indicates that accumulation of cadmium within the Taaltsuxéi Héen east mainstem and side-channels was related to mine site discharges (Figure 4.29). The zone of impact extended to site SW16-8 further downstream the east side channel in Zone 3, however, it did not extend to impact sites TUL-09 in Zone 3 or SW24-7 in Zone 4 (Figure 4.29).

The mean sediment cadmium content in June exceeded the ISQG at five of the seven sites and exceeded the PEL at exposure site W11 (Figure 4.29). The mean sediment cadmium content in September exceeded the ISQG at four of the seven sites and exceeded the PEL at exposure site W11 (Figure 4.29). These data indicate that the cadmium content in the sediment is elevated at site W11 to a level potentially associated with frequent adverse biological effects.

Figure 4.29: Sediment Cadmium Content (mg/kg dry weight)



Note: The lower grey dashed line represents the Interim Sediment Guideline (ISQG), and the upper black solid line represents the Probable Effects Level (PEL).

4.3.4 Chromium

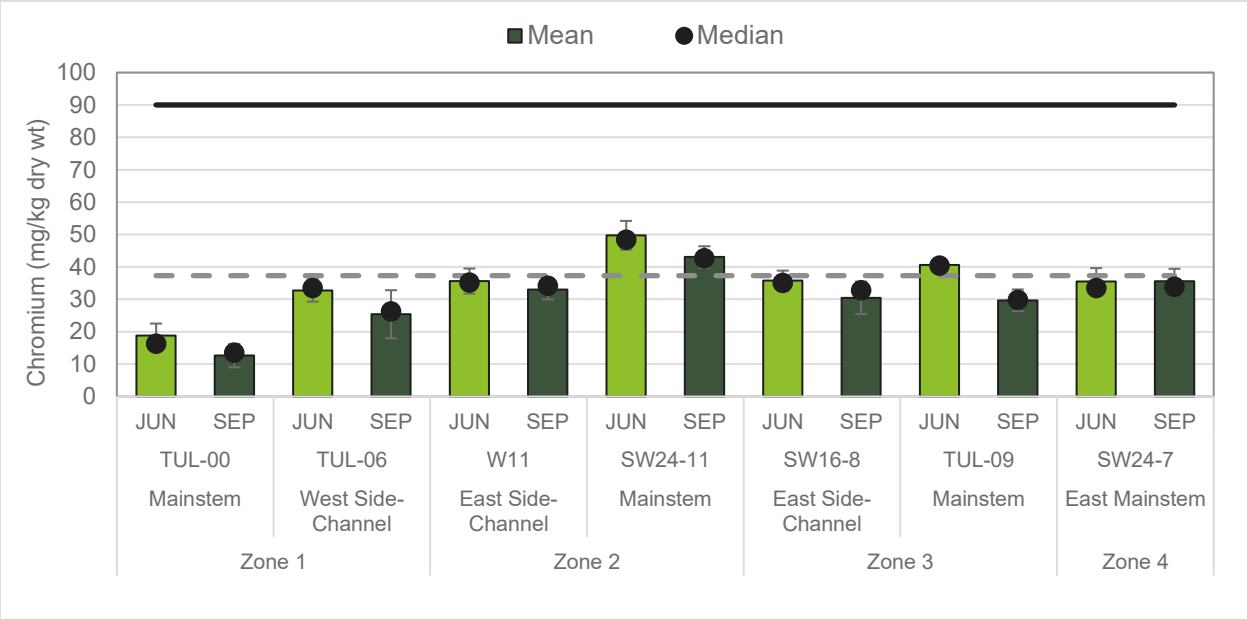
Total chromium was not previously identified as a COPC in surface water; however, it was included in Section 4.1.2.9 due to exceedances of the Working BCWQG and is discussed here because of the availability of environmental benchmarks.

The mean chromium content of the fine sediment (<2 mm) in June ranged from approximately 18.8 mg/kg dry weight at upstream reference site TUL-00 to 49.7 mg/kg dry weight at impact site SW24-11 (Figure 4.30). The mean chromium content of the fine sediment in September ranged from approximately 12.6 mg/kg dry weight at upstream reference site TUL-00 to 43.0 mg/kg dry weight at impact site SW24-11 (Figure 4.30).

The mean sediment chromium content at four of the downstream sites including exposure site W11 was comparable to the upstream reference site TUL-06 in June and September, which indicates the accumulation of chromium in the Taaltsuxéi Héen was not related to mine site discharge (Figure 4.30).

The mean sediment chromium content exceeded the ISQG at sites SW24-11 and TUL-09 in June and site SW24-11 in September (Figure 4.30). These data indicate that chromium content in the sediment is elevated at these sites to a level potentially associated with occasional adverse biological effects.

Figure 4.30: Sediment Chromium Content (mg/kg dry weight)



Note: The lower grey dashed line represents the Interim Sediment Guideline (ISQG), and the upper black solid line represents the Probable Effects Level (PEL).

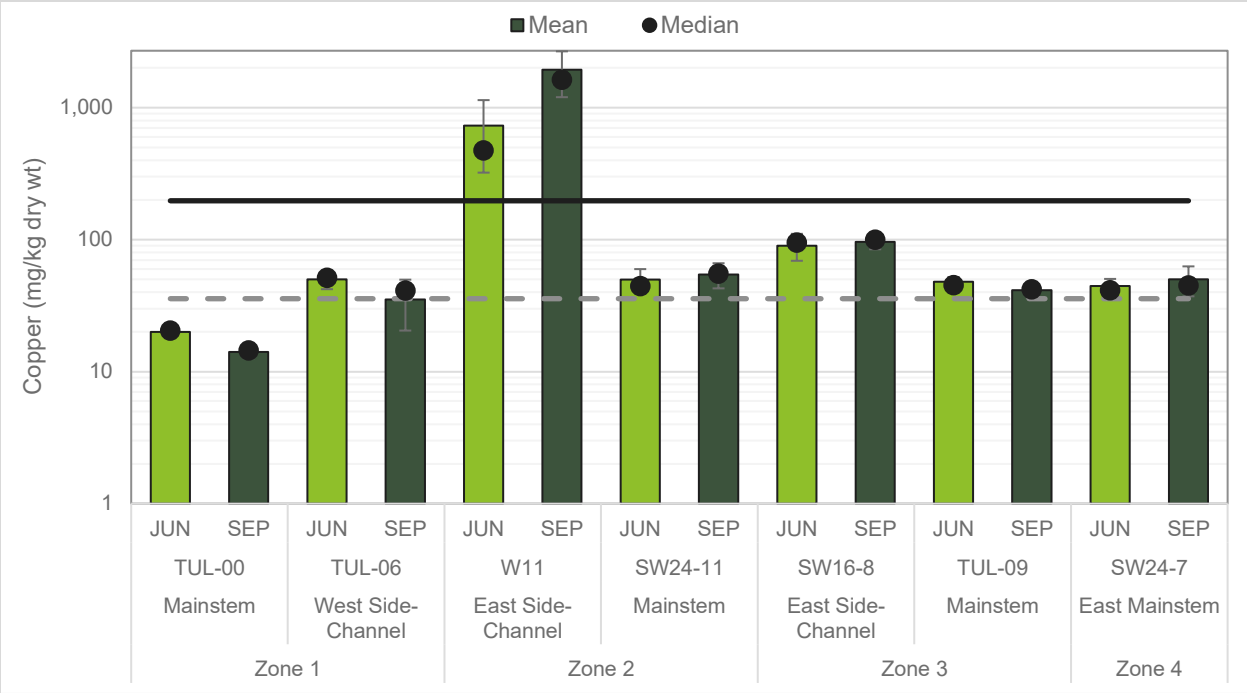
4.3.5 Copper

The mean copper content of the fine sediment (<2 mm) in June ranged from approximately 20.0 mg/kg dry weight at upstream reference site TUL-00 to approximately 731.4 mg/kg dry weight at exposure site (Figure 4.31). The mean copper content of the fine sediment in September ranged from approximately 14.1 mg/kg dry weight at upstream reference site TUL-00 to approximately 1,936.0 mg/kg dry weight at exposure site W11 (Figure 4.31).

These results indicated the accumulation of copper within the Taaltsuxéi Héen was related to mine site discharges (Figure 4.31). The zone of impact, however, did not extend to impact sites SW16-9 and TUL-09 in Zone 3 and SW24-7 in Zone 4 further downstream (Figure 4.31).

The mean sediment copper content exceeded the ISQG at six of the seven sites in June and five of the seven sites in September (Figure 4.31). The PEL was also exceeded at W11 in June and September (Figure 4.31). These data indicate that copper content in the sediment is elevated at site W11 on the Taaltsuxéi Héen to a level potentially associated with frequent adverse biological effects.

Figure 4.31: Sediment Copper Content (mg/kg dry weight)



Note: The lower grey dashed line represents the Interim Sediment Guideline (ISQG), and the upper black solid line represents the Probable Effects Level (PEL).

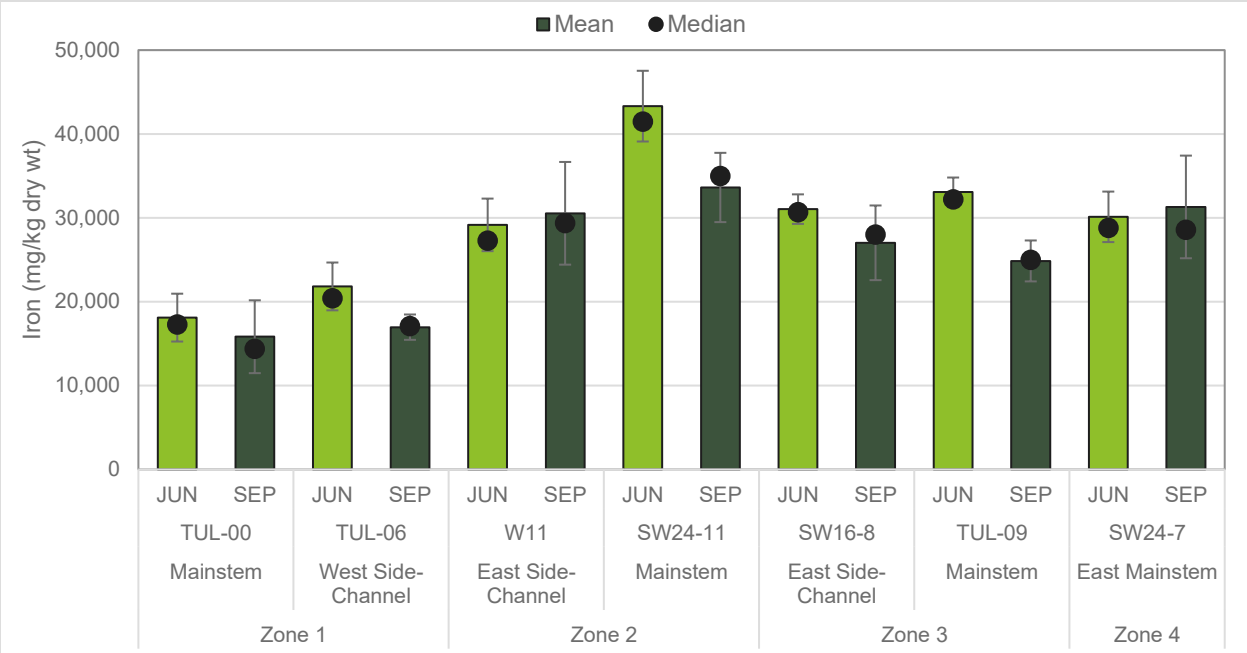
4.3.6 Iron

The mean iron content of the fine sediment (<2 mm) in June ranged from approximately 18,100 mg/kg dry weight at upstream reference point TUL-00 to approximately 43,320 mg/kg dry weight at exposure site SW24-11 (Figure 4.32). The mean iron content of the fine sediment in September ranged from approximately 15,820 mg/kg dry weight at upstream reference site TUL-00 to approximately 33,620 mg/kg dry weight at site SW24-11 (Figure 4.32).

The mean sediment iron content at sites in Zones 2, 3 and 4 were comparable to the non-impact site SW24-11, located on the west channel of the mainstem unaffected by mine site discharge, indicating that the accumulation of iron in the Taaltsuxéi Héen was not related to mine site discharge (Figure 4.32).

Currently, there are no CCME or approved provincial sediment quality benchmarks for iron concentrations. BC does have a working sediment quality guideline for iron with a lowest effects level of 21,200 mg/kg dw and a severe effects levels of 43,766 mg/kg dw (MWLRS 2025b, Jaagumagi 1993). However, this guideline was developed over 30 years ago using limited toxicity and background data and has not been updated to reflect advances in sediment geochemistry, bioavailability, or ecological risk assessment. As a result, this guideline is widely regarded as outdated and is generally not relied upon as an appropriate or defensible threshold for assessing potential ecological effects of iron in sediment.

Figure 4.32: Sediment Iron Content (mg/kg dry weight)



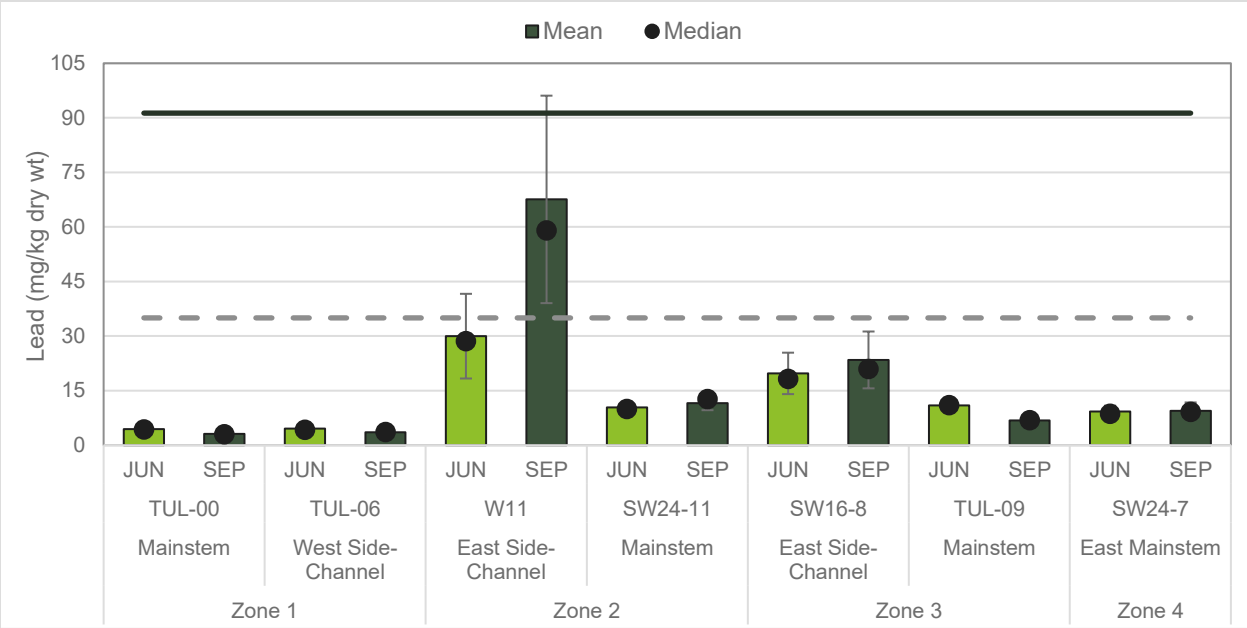
4.3.7 Lead

The mean lead content of the fine sediment (<2 mm) in June ranges from approximately 4.4 mg/kg dry weight at upstream reference site TUL-00 to approximately 30.0 mg/kg dry weight at exposure site W11 (Figure 4.33). The mean lead content of the fine sediment in September ranged from approximately 3.1 mg/kg dry weight at upstream reference site TUL-00 to approximately 67.6 mg/kg dry weight at exposure site W11 (Figure 4.33).

The mean sediment lead content was elevated in June and September at exposure site W11 and extended to downstream impact site SW16-8, which indicates that accumulation of lead within the Taaltsuxéi Héen was related to mine site discharges (Figure 4.33). The zone of impact, however, did not extend to TUL-09 in Zone 3 and SW24-7 in Zone 4 further downstream (Figure 4.33).

The mean sediment lead content only exceeded the ISQG at exposure site W11 in September (Figure 4.33). These data indicate that the lead content in the sediment is elevated at site W11 to a level potentially associated with frequent adverse biological effects.

Figure 4.33: Sediment Lead Content (mg/kg dry weight)



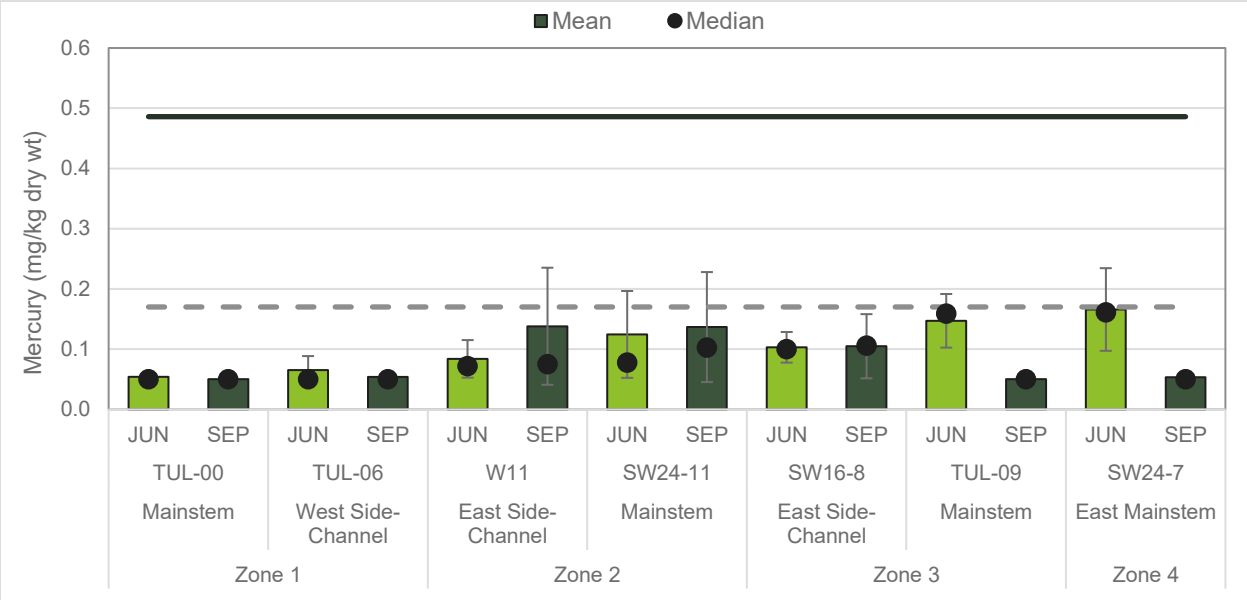
Note: The lower grey dashed line represents the Interim Sediment Guideline (ISQG), and the upper black solid line represents the Probable Effects Level (PEL).

4.3.8 Mercury

The mean mercury content of the fine sediment (<2 mm) was comparable across all seven sites both in June and September and was therefore not elevated in sites immediately downstream of mine site discharges (Figure 4.34). These data indicate that accumulation of mercury within the Taaltsuxéi Héen was not related to mine site discharges (Figure 4.34).

The mean mercury content only exceeded the ISQG at downstream impact site SW24-7 in June (Figure 4.34). These data indicate that the mercury content in the sediment is elevated at site SW24-7 to a level potentially associated with occasional adverse biological effects.

Figure 4.34: Sediment Mercury Content (mg/kg dry weight)



Note: The lower grey dashed line represents the Interim Sediment Guideline (ISQG), and the upper black solid line represents the Probable Effects Level (PEL).

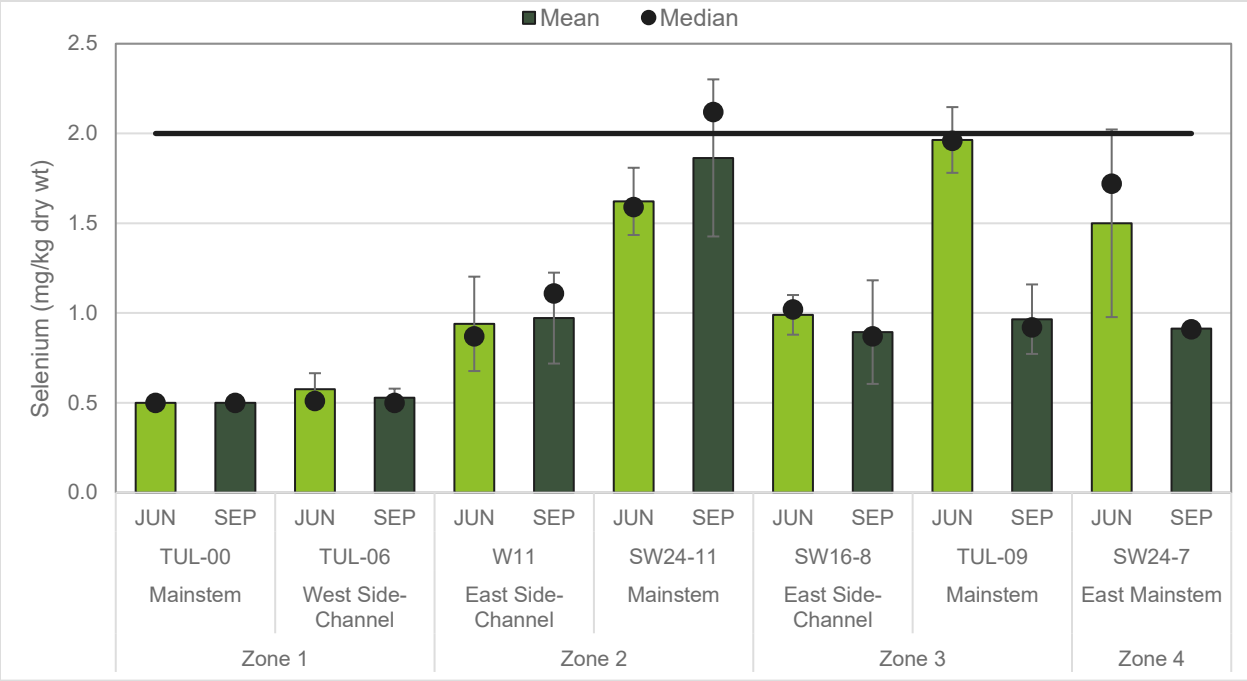
4.3.9 Selenium

The mean selenium content of the fine sediment (<2 mm) in June ranged from approximately 0.5 mg/kg dry weight at upstream reference site TUL-00 to approximately 2.0 mg/kg dry weight at downstream impact site TUL-09 on the Taaltsuxéi Héen (Figure 4.35). The mean selenium content of the fine sediment in September ranged from 0.5 mg/kg dry weight at upstream reference sites TUL-00 and TUL-06 to 1.9 mg/kg dry weight at site SW24-11 (Figure 4.35).

The mean sediment selenium content was elevated from the reference site levels at exposure sites W11, SW16-8, TUL-09 and SW24-7. However, the selenium was also elevated at site SW24-11, located on the west channel of the mainstem, unaffected by mine site discharge, indicating that the accumulation of selenium in the Taaltsuxéi Héen was not related to mine site discharges (Figure 4.35).

The mean selenium content was below the environmental benchmark at all the seven sites in both June and September (Figure 4.35).

Figure 4.35: Sediment Selenium Content (mg/kg dry weight)



Note: The grey dashed line represents the Interim Sediment Guideline (ISQG).

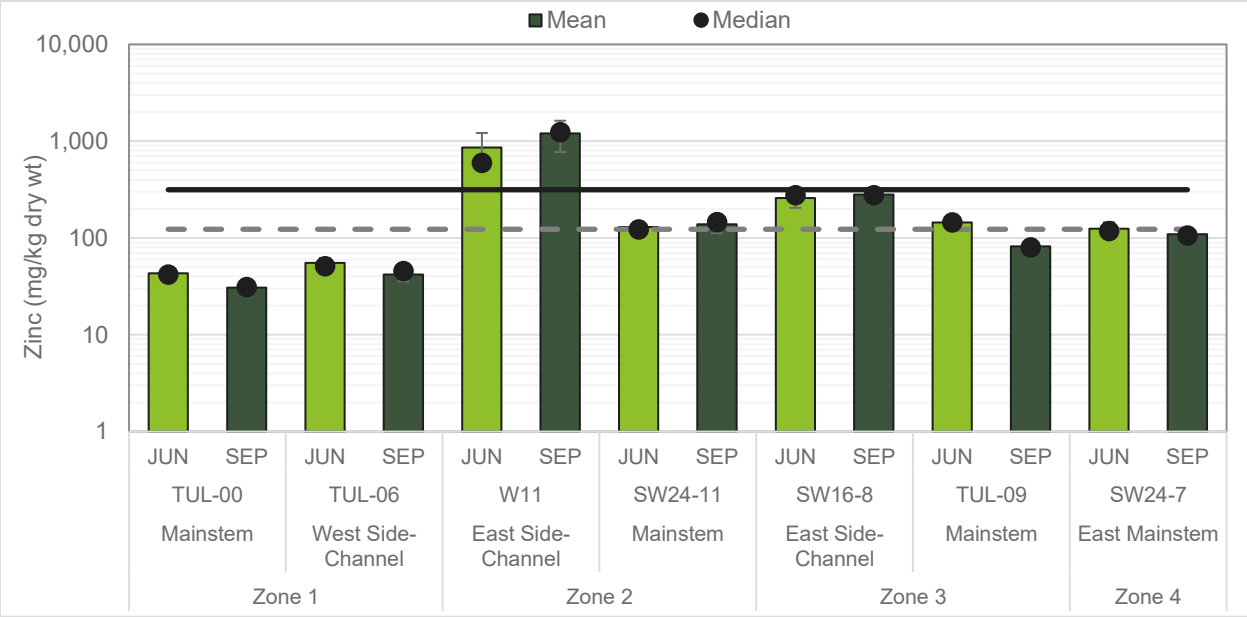
4.3.10 Zinc

The mean zinc content of the fine sediment (<2 mm) in June ranged from approximately 43.2 mg/kg dry weight at upstream reference site TUL-00 to approximately 859.6 mg/kg dry weight at exposure site W11 (Figure 4.36). The mean zinc content of the fine sediment in September ranged from approximately 30.7 mg/kg dry weight at upstream reference site TUL-00 to 1,199.4 mg/kg dry weight at exposure site W11 (Figure 4.36).

The mean sediment zinc content elevated at W11 indicates that accumulation of zinc within the Taaltsuxéi Héen was related to mine site discharges (Figure 4.36). The zone of impact extended to impact site SW16-8 in Zone 3 further downstream (Figure 4.36).

The mean sediment zinc content exceeded the ISQG at five of the seven sites in June and three of the seven sites in September and exceeded the PEL at W11 in both June and September (Figure 4.36). These data indicate that zinc content in the sediment is elevated at W11 on the Taaltsuxéi Héen to a level potentially associated with frequent biological effects.

Figure 4.36: Sediment Zinc Content (mg/kg dry weight)



Note: The lower grey dashed line represents the Interim Sediment Guideline (ISQG), and the upper black solid line represents the Probable Effects Level (PEL).

5.0 Conclusions

The monitoring objectives of the SWMP (Section 1.2) were met in 2025. Continued annual execution of the SWMP will contribute to develop a comprehensive understanding of the impact of the Tulsequah Chief Mine on the surface water and sediment chemistry and hydrology on the Taaltsuxéi Héen.

5.1 Surface Water

Surface water in the Taaltsuxéi Héen is generally circumneutral to alkaline and exhibits a strong resistance to acidification. Calcium is the predominant cation, while bicarbonate, expressed as total alkalinity, is the dominant anion.

The previously identified COPCs related to the Tulsequah Chief mine include pH, sulphate, aluminum, arsenic, cadmium, copper, iron, manganese, lead, and zinc. Sampling in 2025 demonstrate discharges from the 5400 and 5200 Level adits, with combined discharge also sampled at the outlet of the exfiltration pond (SE2), are characteristic of ARD, exhibiting low pH and alkalinity, elevated sulphate concentrations, with dissolved aluminum, total arsenic, dissolved cadmium, dissolved copper, total lead, and dissolved zinc exceeding applicable WQGs. Concentrations of dissolved aluminium, copper, and zinc were particularly high along the 5400 and 5200 Level Adit flow path through SE2. Metal concentrations in the 5200 Level Adit were generally higher than in the 5400 Level Adit, except for total arsenic. Dissolved iron exceedances originating from the 5200 Level Adit were also observed in SE2 samples. The WTP Pond and 5900 Level Adit may be characterized as neutral mine drainage, with pH values greater than 6 and elevated sulphate and metal concentrations. Concentrations of dissolved manganese were notably higher in mine drainage waters than in samples from the Taaltsuxéi Héen, but none exceeded the applicable WQG.

The influence of mine discharge on the Taaltsuxéi Héen was detectable up to approximately 2,500 m downstream for dissolved cadmium, dissolved copper, and dissolved zinc, as observed in July and August 2025 samples at TUL-12. The influence of mine discharge for pH, sulphate, dissolved aluminum, total arsenic, dissolved iron, dissolved lead, and dissolved manganese was attenuated to background levels approximately 250 to 1,000 meters downstream of the mine discharge. The Taaltsuxéi Héen demonstrates strong natural buffering capacity and dilution potential, which helps mitigate the effects of mine drainage beyond Zone 3. The cumulative effects of multiple COPCs, however, remain uncertain, as interactions among metals, sulphate, and acidity may enhance toxicity beyond what is predicted by exceedances of individual guidelines.

5.2 Hydrology

Spot discharge measurements collected in 2025 across 20 sites provided valuable snapshots of streamflow conditions, though they represent only point-in-time observations and offer limited insight into the hydrological patterns within the study area. While mine discharge was minimal compared to the flow in the Taaltsuxéi Héen, it was still sufficient to cause detectable increases in COPC concentrations in both surface water and sediment downstream of the mine site.

5.3 Sediment

At impact site W11 on the Taaltsuxéi Héen, sediment concentrations exceeded the PEL for arsenic, cadmium, copper, and zinc (Table 4.3). Notably, in 2024 arsenic levels exceeded 40 mg/kg at SW16-1, located at the mouth of Shazah Creek. This elevation may not be entirely related to mine discharges and could reflect naturally occurring conditions within the Shazah Creek watershed (Table 4.3, SLR 2025b). Sediment sampling at SW16-1 was not part of the SWMP (SLR 2025a).

Based on the 2025 data, cadmium, copper, lead, and zinc were considered sediment COPC linked to mine site discharges. Concentrations associated with potentially frequent adverse biological effects were observed in the Taaltsuxéi Héen approximately 250 m downstream of the mine. However, sediment quality improved further downstream in Zone 3 and 4, where copper and zinc concentrations were either below the ISQG or comparable to reference sites (Table 4.3).

The dynamics of sediment and contaminant loads the Taaltsuxéi Héen which is subject to frequent flooding and substrate reorganization are highly complex. Unlike surface water, these results are challenging to interpret because contaminated sediments may be transported downstream and deposited in varying locations throughout the year. Sediment data collected in 2025 will contribute to future time-series analyses across multiple years to assess variability in sediment metal concentrations, allowing more conclusive reflections about the contaminant load in sediment.

6.0 Closure

We appreciate the opportunity to be of service to Teck Resources Limited.

Regards,

SLR Consulting (Canada) Ltd.



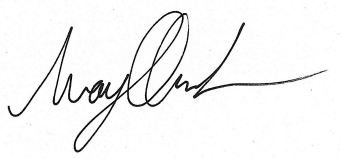
Diana Gawol, B.Sc., B.I.T.
Fisheries Biologist



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Aquatic Biologist



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May Mason, M.Sc., R.P.Bio.
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Appendix A Site Maps

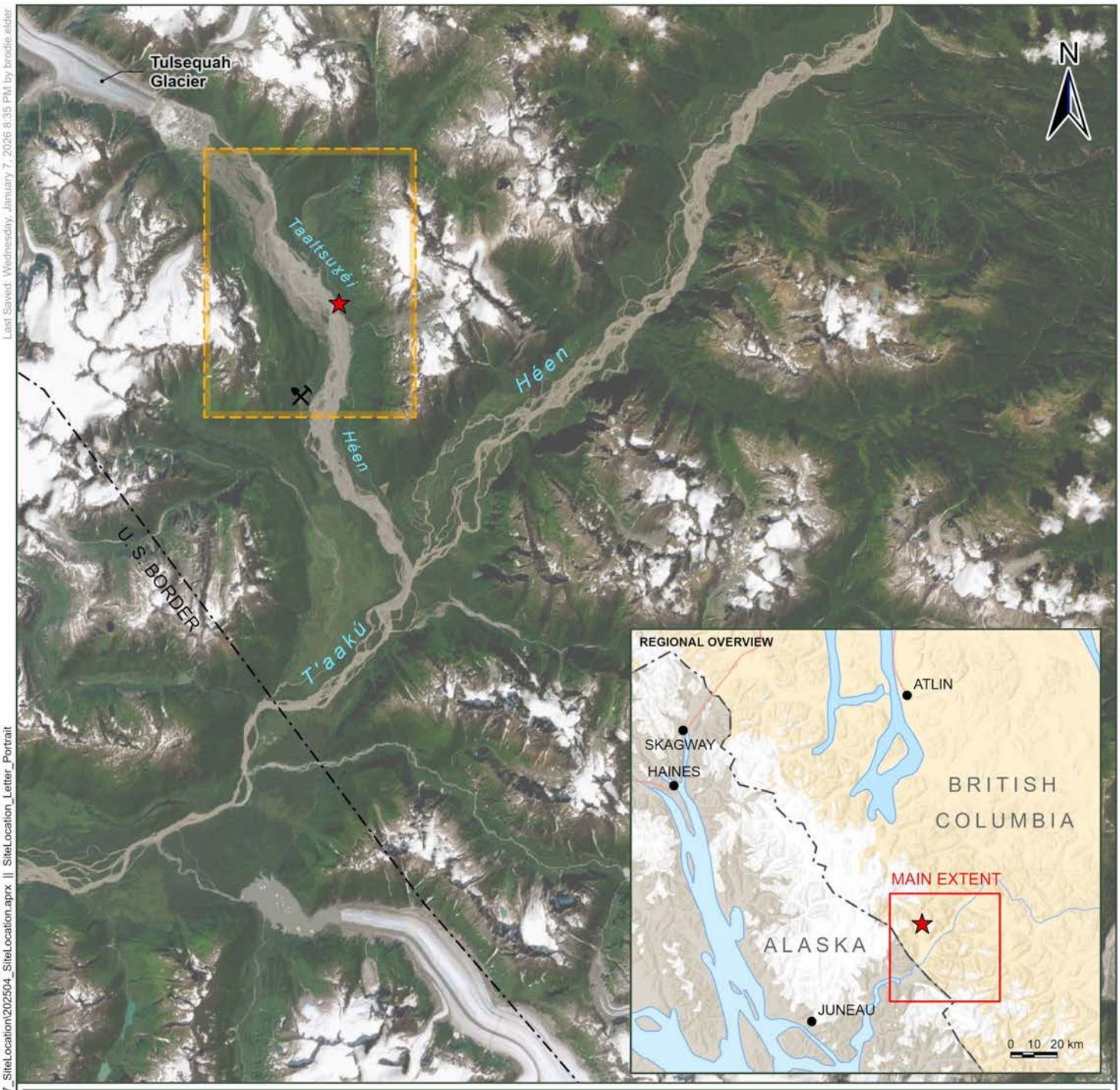
Tulsequah Chief Surface Water Monitoring Program 2025 Report

Tulsequah Chief Mine, British Columbia

Teck Resources Limited

SLR Project No.: 234.030071.00002

February 2, 2026



LEGEND:

- INVESTIGATION AREA
- TULSEQUAH CHIEF MINE SITE
- NEW POLARIS MINE



NOTES:
1. IMAGERY PROVIDED BY ESRI BASEMAP SERVICE (MAXAR, 2013/2019).
2. REGIONAL OVERVIEW BASE DATA PROVIDED BY NATURAL RESOURCES CANADA (NORTH AMERICA ATLAS).

0 2.5 5 7.5 10 km

SCALE 1:250,000

PAGE SIZE 8.5 x 11
NAD 1983 UTM Zone 8N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

TECK RESOURCES LIMITED
TULSEQUAH CHIEF MINE SITE
ATLIN, BC

TULSEQUAH CHIEF 2025 SURFACE WATER MONITORING PLAN (SWMP)

SITE LOCATION

SLR

FIGURE NO:
A.1

DATE: January 7, 2026

PROJECT NO: 234.030071.00001

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572500 575000 577500 580000 582500 585000

6520000 6517500 6515000 6512500 6510000 6507500 6505000

N

Tulsequah Glacier

Taaltsuxéi

Nofault Creek

ZONE 1

EASTERN TRIBUTARIES

Shazah Creek

Héen

Dawn Creek

Camp Creek

5900 LEVEL ADIT
5400 LEVEL ADIT
EXFILTRATION POND

EFFLUENT ZONE

ZONE 2

5200 LEVEL ADIT

ZONE 3

Rogers Creek

Rogers Slough

EASTERN TRIBUTARIES

Limestone Creek

ZONE 4

Whitewater Creek

New Polaris Mine

Wrinis Creek

Bacon Creek

572500 575000 577500 580000 582500 585000

LEGEND:

- ZONE BOUNDARY
- EFFLUENT ZONE DRAINAGE AREA
- EASTERN TRIBUTARY
- WATERCOURSE [1]
- WETLAND [1]

NOTES:
1. WATER FEATURES PROVIDED BY GOVERNMENT OF BRITISH COLUMBIA (BC FRESHWATER ATLAS) AND MODIFIED IN PLACES NEAR MINE SITE BASED ON 2024 SATELLITE IMAGERY AND FIELD TRUTHING.
2. IMAGERY PROVIDED BY ESRI BASEMAP SERVICE (MAXAR, 2013/2019).
3. CONTOUR LINES PROVIDED BY NATURAL RESOURCES CANADA (CANVEC 1:50,0000). INTERVAL IS 100 FEET.

0 0.5 1 1.5 2 2.5 km

SCALE 1:60,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 8N
THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

TECK RESOURCES LIMITED
TULSEQUAH CHIEF MINE SITE
ATLIN, BC

TULSEQUAH CHIEF 2025 SURFACE WATER MONITORING PLAN (SWMP)

TULSEQUAH MINE STUDY AREA

SLR

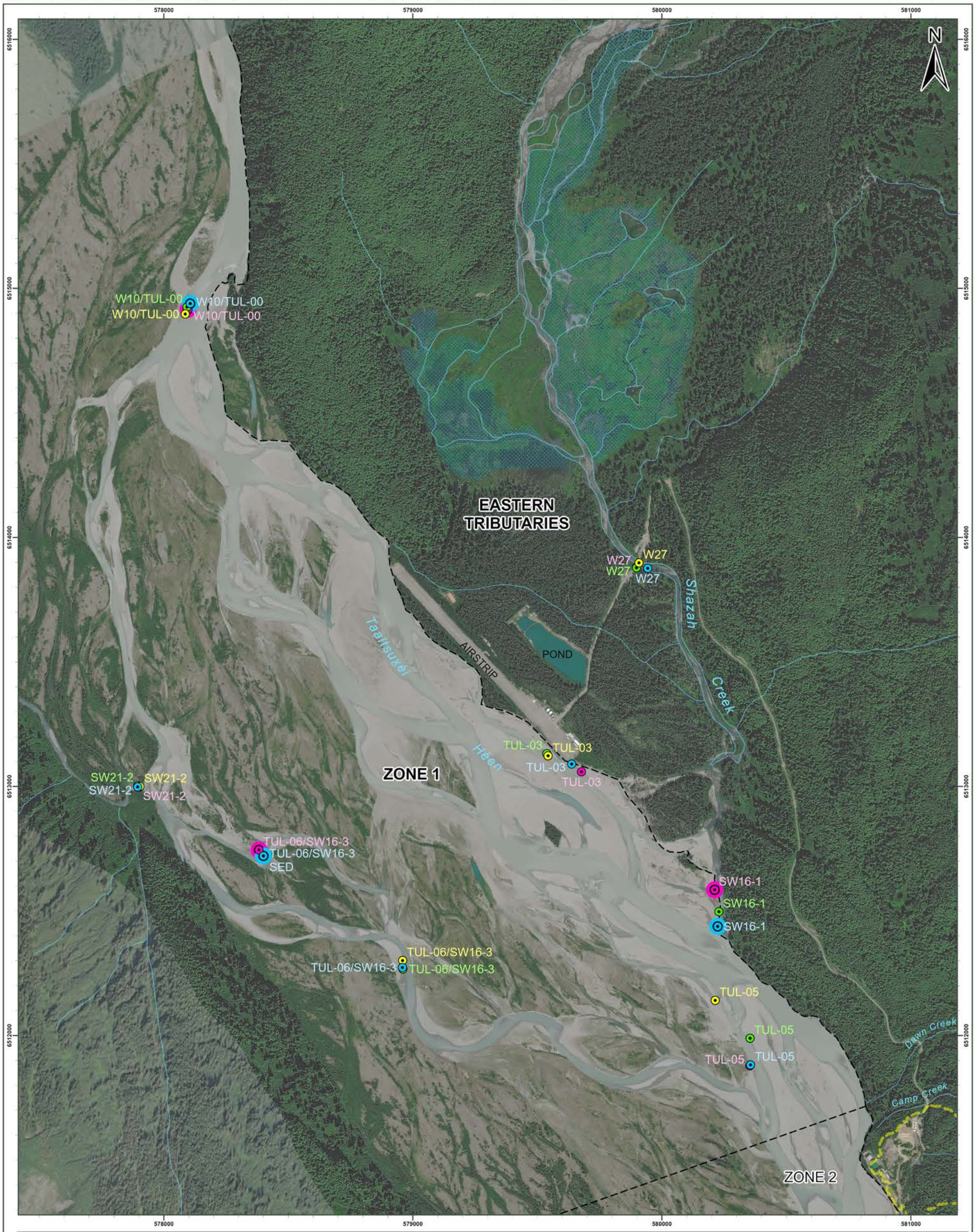
FIGURE NO:
A.2

DATE: January 7, 2026

PROJECT NO: 234.030071.00001

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LEGEND:

WATER QUALITY SAMPLING LOCATION
- JUNE 2025
- JULY 2025
- AUGUST 2025
- SEPTEMBER 2025

INCLUDES SEDIMENT SAMPLING
- JUNE 2025
- SEPTEMBER 2025

- ZONE BOUNDARY
- EFFLUENT ZONE DRAINAGE AREA
- WATERCOURSE [1]
- WETLAND [1]

NOTES:
1. MODIFIED (NEAR MINE SITE ONLY) FROM BC FRESHWATER ATLAS.
2. SATELLITE IMAGERY COVERING ALL SAMPLE SITES CAPTURED JULY 14, 2025, PROVIDED BY SKYWATCH. ADDITIONAL SURROUNDING IMAGERY PROVIDED BY ESRI BASEMAP SERVICE (MAXAR, 2019).

0 250 500 750 m

SCALE 1:15,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 8N
THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

TECK RESOURCES LIMITED
TULSEQUAH CHIEF MINE SITE
ATLIN, BC

TULSEQUAH CHIEF 2025 SURFACE WATER MONITORING PLAN (SWMP)

2025 SWMP SAMPLING LOCATIONS - ZONE 1

SLR

FIGURE NO:
A.3

DATE: February 2, 2026

PROJECT NO: 234.030071.00001

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GIS PATH: G:_Projects\234\234_030071_Tulsequah\1_Workspace\1_Maps\202507_SWMP_Report\202504_SWMP_Report.aprx || FigA4_WQ_Sites_Zone2_11x17_Landscape

580000 580500 581000 581500

6512000 6511500 6511000 6510500

N

EASTERN TRIBUTARIES

ZONE 1

ZONE 2

ZONE 3

EASTERN TRIBUTARIES

Taalsuxéi

Héen

Dawn Creek

Camp Creek

Portal Creek

Rogers Creek

SW24-2 SW24-2 SW24-2 SW24-2

CC-04 CC-04 CC-04 6400 Seep

CC-02 CC-02 CC-02 CC-02

CC-01

5900 LEVEL ADIT

5400 CLEAN WATER PIPE

5400 LEVEL ADIT

W46/SW21-4 W46/SW21-4

WTP POND

EFFLUENT ZONE
(See Figure A.7 for detail)

SW24-1 SW24-1 W46/SW21-4 W46/SW21-4 SW24-1 SW24-1

EXFILTRATION POND

SE2

5200 LEVEL ADIT

W44 W44 W44 W44

W45 W45 W45 W45

W11 W11 W11 W11

SW24-11 SW24-11 SW24-11 SW24-11

LEGEND:

WATER QUALITY SAMPLING LOCATION

- JUNE 2025
- JULY 2025
- AUGUST 2025
- SEPTEMBER 2025

INCLUDES SEDIMENT SAMPLING

- JUNE 2025
- SEPTEMBER 2025

- ZONE BOUNDARY
- EFFLUENT ZONE DRAINAGE AREA
- WATERCOURSE [1]

NOTES:
1. MODIFIED (NEAR MINE SITE ONLY) FROM BC FRESHWATER ATLAS.
2. SATELLITE IMAGERY COVERING ALL SAMPLE SITES CAPTURED JULY 14, 2025, PROVIDED BY SKYWATCH.

0 100 200 300 400 m

SCALE 1:7,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 8N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

TECK RESOURCES LIMITED
TULSEQUAH CHIEF MINE SITE
ATLIN, BC

TULSEQUAH CHIEF 2025 SURFACE WATER MONITORING PLAN (SWMP)

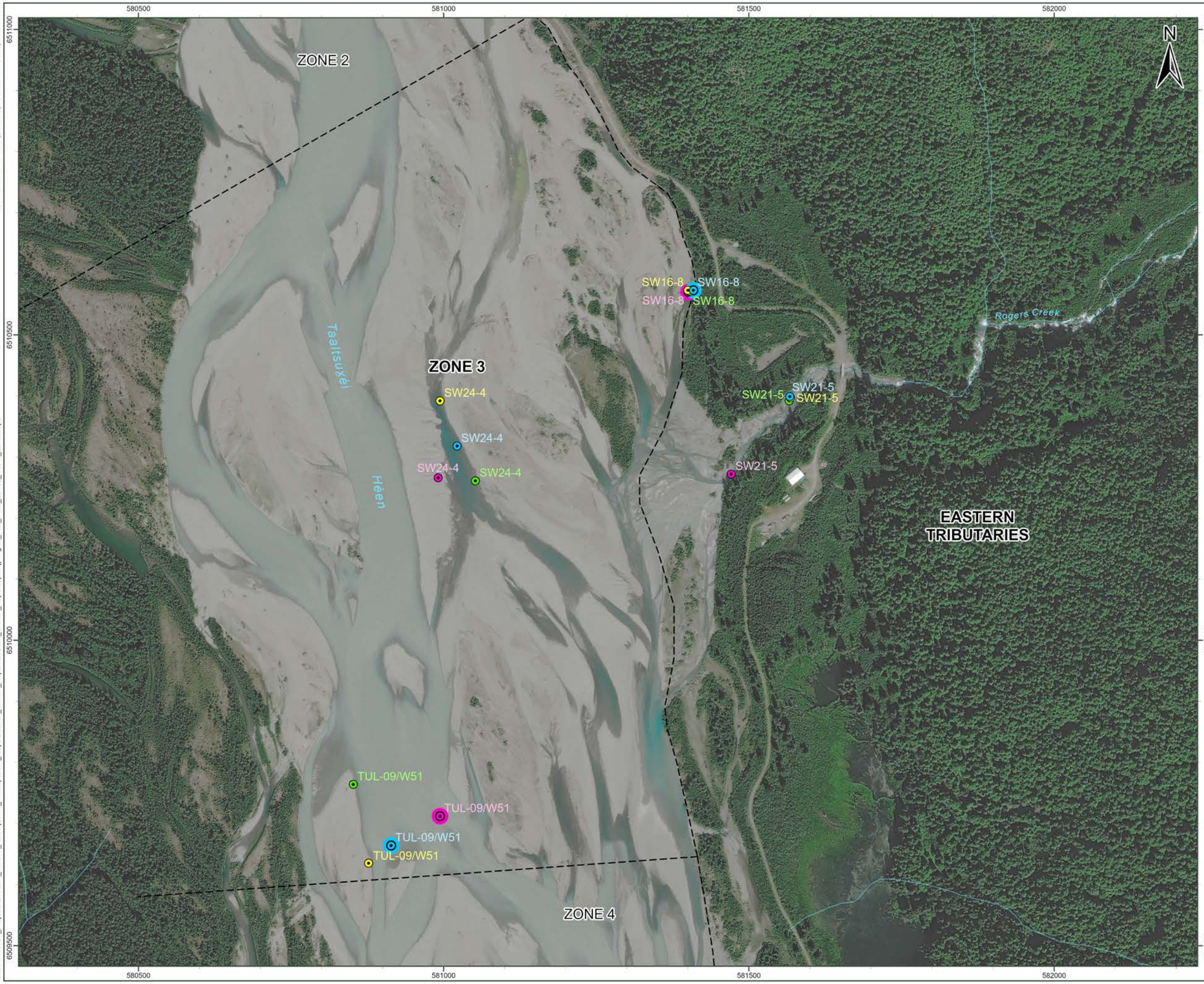
2025 SWMP SAMPLING LOCATIONS - ZONE 2 / EFFLUENT ZONE

SLR

FIGURE NO:
A.4

DATE: February 2, 2026

PROJECT NO: 234.030071.00001



LEGEND:

WATER QUALITY SAMPLING LOCATION

- JUNE 2025
- JULY 2025
- AUGUST 2025
- SEPTEMBER 2025

INCLUDES SEDIMENT SAMPLING

- JUNE 2025
- SEPTEMBER 2025

- ZONE BOUNDARY
- WATERCOURSE [1]

NOTES:
1. MODIFIED (NEAR MINE SITE ONLY) FROM BC FRESHWATER ATLAS.
2. SATELLITE IMAGERY COVERING ALL SAMPLE SITES CAPTURED JULY 14, 2025, PROVIDED BY SKYWATCH.

0 100 200 300 m

SCALE 1:6,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 8N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

TECK RESOURCES LIMITED
TULSEQUAH CHIEF MINE SITE
ATLIN, BC

TULSEQUAH CHIEF 2025 SURFACE WATER MONITORING PLAN (SWMP)

2025 SWMP SAMPLING LOCATIONS - ZONE 3

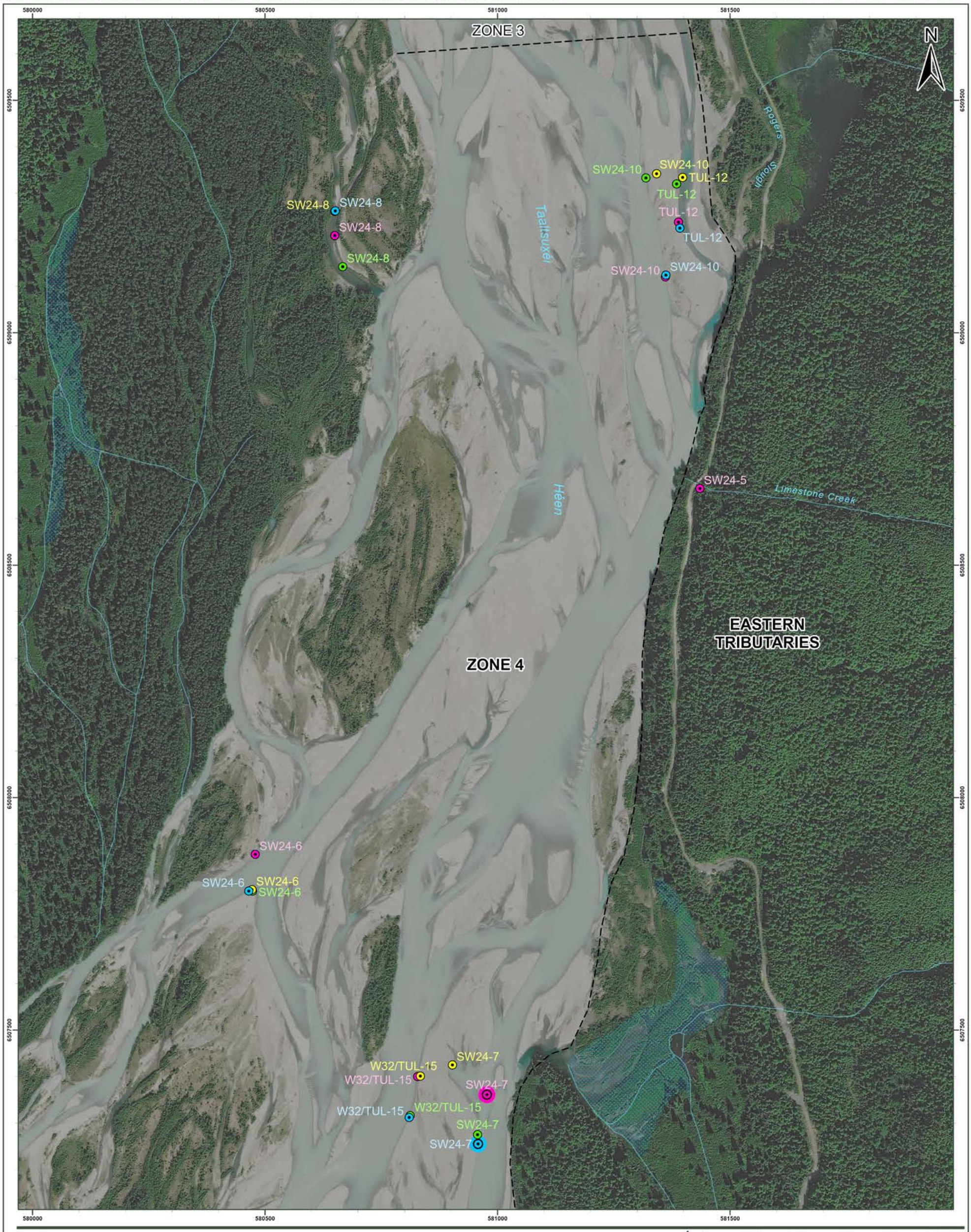
SLR

FIGURE NO:
A.5

DATE: February 2, 2026

PROJECT NO: 234.030071.00001

Last Saved: Wednesday, January 7, 2026 4:51 PM by brodie.elder
GIS PATH: G:_Projects\234\234_030071_Tulsequah\1_Workspace\1_Maps\202507_SWMP_Report\202504_SWMP_Report.aprx || FigA5_WQ_Sites_Zone3_11x17_Landscape



LEGEND:

WATER QUALITY SAMPLING LOCATION
- JUNE 2025
- JULY 2025
- AUGUST 2025
- SEPTEMBER 2025

INCLUDES SEDIMENT SAMPLING
- JUNE 2025
- SEPTEMBER 2025

ZONE BOUNDARY

WATERCOURSE [1]

WETLAND [1]

NOTES:
1. MODIFIED (NEAR MINE SITE ONLY) FROM BC FRESHWATER ATLAS.
2. SATELLITE IMAGERY COVERING ALL SAMPLE SITES CAPTURED JULY 14, 2025, PROVIDED BY SKYWATCH. ADDITIONAL SURROUNDING IMAGERY PROVIDED BY ESRI BASEMAP SERVICE (MAXAR, 2013/2019).

0 100 200 300 400 500 m

SCALE 1:8,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 8N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

TECK RESOURCES LIMITED
TULSEQUAH CHIEF MINE SITE
ATLIN, BC

TULSEQUAH CHIEF 2025 SURFACE WATER MONITORING PLAN (SWMP)

2025 SWMP SAMPLING LOCATIONS - ZONE 4

SLR

FIGURE NO:
A.6

DATE: February 2, 2026

PROJECT NO: 234.030071.00001

Last Saved: Wednesday, January 7, 2026 4:51 PM by brodie.elder

GIS PATH: G:_Projects\234\234_030071_Tulsequah\1_Workspace\1_Maps\202507_SWMP_Report\202504_SWMP_Report.aprx || FigA7_EffluentZone_11x17_Landscape

580750 581000 581250

6511750 6511500 6511250

ZONE 1

EASTERN TRIBUTARIES

Dawn Creek

Camp Creek

N

5900 LEVEL ADIT

5900 LEVEL ADIT

5900 LEVEL ADIT

5900 Waste Dump

5400 LEVEL ADIT

5400 LEVEL ADIT

5400 CLEAN WATER PIPE

5400 LEVEL ADIT

5400 LEVEL ADIT

Portal Creek

Water Treatment Plant

WTP Feed Pond

WTP POND

WTP POND

WTP POND

WTP POND

EFFLUENT ZONE

Taalisuxéi Héen

Exfiltration Pond

SE2

SE2

SE2

SE2

5200 LEVEL ADIT

5200 LEVEL ADIT

5200 LEVEL ADIT

5200 LEVEL ADIT

ZONE 2

LEGEND:

WATER QUALITY SAMPLING LOCATION

- JUNE 2025
- JULY 2025
- AUGUST 2025
- SEPTEMBER 2025

ZONE BOUNDARY

EFFLUENT ZONE DRAINAGE AREA

WATERCOURSE [1]

NOTES:
1. MODIFIED (NEAR MINE SITE ONLY) FROM BC FRESHWATER ATLAS.
2. SATELLITE IMAGERY COVERING ALL SAMPLE SITES CAPTURED JULY 14, 2025, PROVIDED BY SKYWATCH.

0 25 50 75 100 m

SCALE 1:2,300
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 8N

THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY AND SHOULD NOT BE USED FOR NAVIGATION

TECK RESOURCES LIMITED
TULSEQUAH CHIEF MINE SITE
ATLIN, BC

TULSEQUAH CHIEF 2025 SURFACE WATER MONITORING PLAN (SWMP)

2025 SMWP SAMPLING LOCATIONS - EFFLUENT ZONE

SLR

FIGURE NO:
A.7

DATE: February 2, 2026

PROJECT NO: 234.030071.00001

Appendix B Photolog

Tulsequah Chief Surface Water Monitoring Program 2025 Report

Tulsequah Chief Mine, British Columbia

Teck Resources Limited

SLR Project No.: 234.030071.00002

February 2, 2026

Photolog – June 2025

Photo 1: Tulsequah River: SW24-10 downstream (June 18, 2025)



Photo 2: Tulsequah River: SW 24-7 downstream (June 18, 2025)

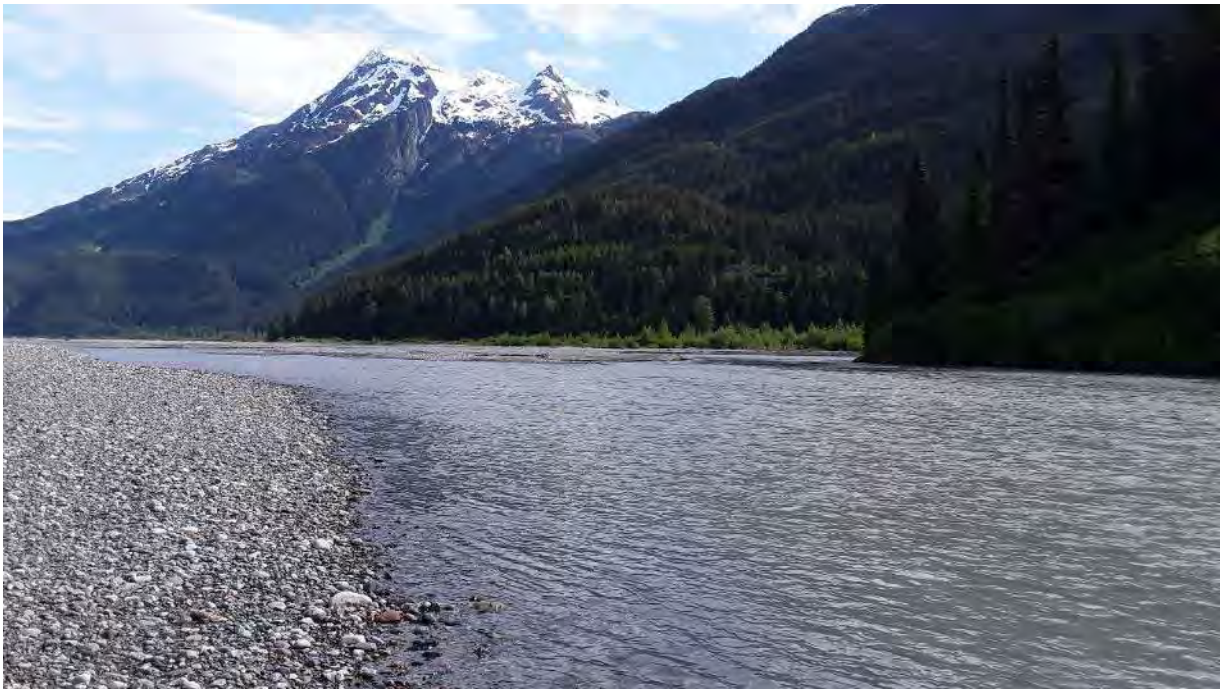


Photo 3: Tulsequah River: W32/TUL-15 upstream (June 18, 2025)



Photo 4: Tulsequah River: SW24-6 downstream(June 18, 2025)



Photo 5: Tulsequah River: SW24-8 downstream (June 18, 2025)



Photo 6: Tulsequah River: TUL-12 downstream (June 18, 2025)



Photo 7: Tulsequah River: TUL09/W51 downstream (June 19, 2025)



Photo 8: Tulsequah River: SW24-4 upstream (June 19, 2025)



Photo 9: Tulsequah: SW16-8 downstream (June 19, 2025)



Photo 10: Rogers Creek: SW21-5 downstream (June 19, 2025)



Photo 11: Tulsequah River: SW24-11 downstream (June 19, 2025)



Photo 12: Tulsequah River: W44 upstream (June 19, 2025)



Photo 13: Tulsequah River: W45 (June 19, 2025)



Photo 14: Tulsequah River: SW24-1 downstream (June 19, 2025)



Photo 15: Limestone Creek: SW24-5 overview (June 20, 2025)



Photo 16: Tulsequah River: W11 upstream (June 20, 2025)

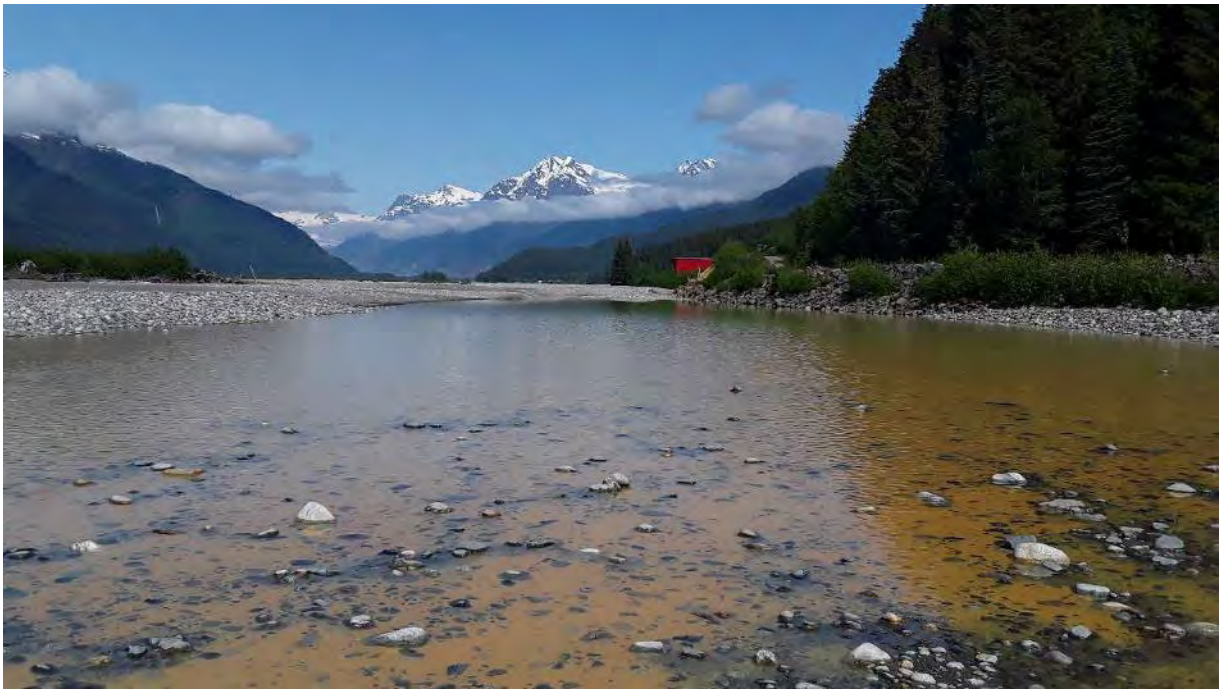


Photo 17: Tulsequah River: W46/SW21-4 upstream (June 20, 2025)



Photo 18: Camp Creek: CC-01 upstream (June 20, 2025)



Photo 19: Camp Creek: CC-02 overview (June 20, 2025)



Photo 20: Effluent: 5900 Level Adit (June 20, 2025)



Photo 21: Camp Creek: CC-04 overview (June 20, 2025)



Photo 22: Effluent: Water Treatment Pond (June 21, 2025)



Photo 23: Effluent: SE2 outlet (June 21, 2025)



Photo 24: Effluent: 5200 Level Adit (June 21, 2025)



Photo 25: Effluent: 5400 Level Adit downstream (June 21, 2025)



Photo 26: Effluent: 5400 Clean Water Pipe outlet (June 21, 2025)



Photo 27: Tulsequah River: TUL-05 downstream (June 21, 2025)

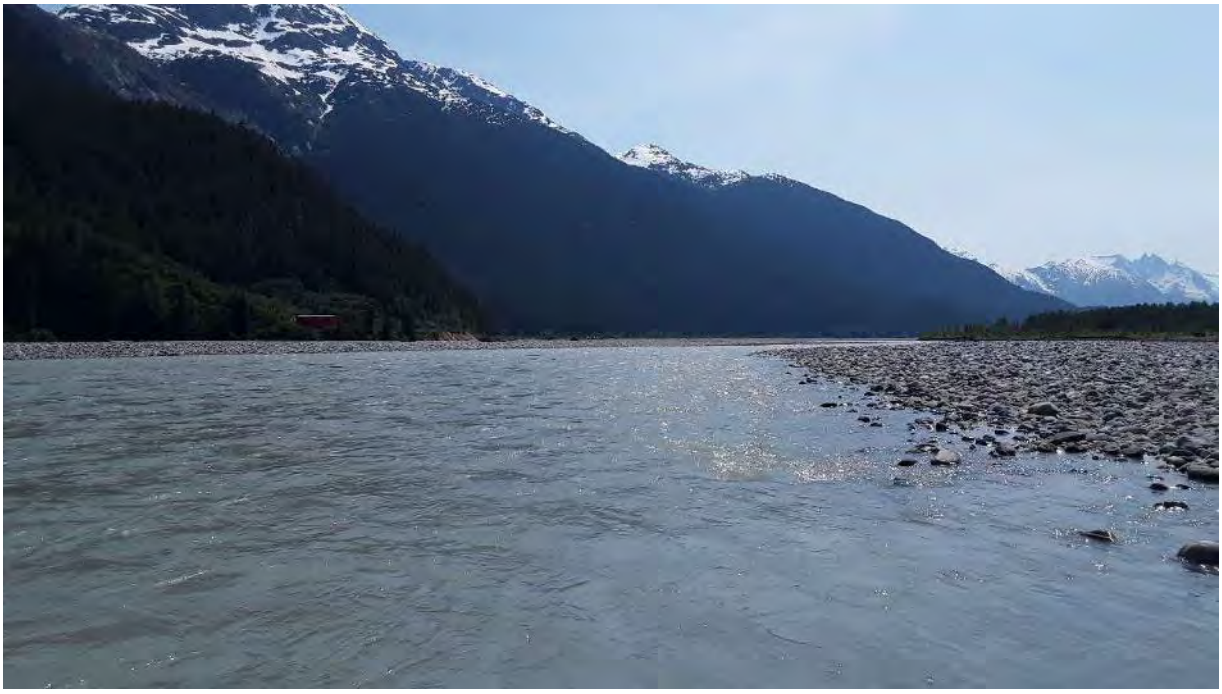


Photo 28: Tulsequah River: TUL-06/SW16-3 upstream (June 21, 2024)



Photo 29: Tributary: SW21-2 (June 21, 2024)



Photo 30: Tulsequah River: W10/TUL-00 downstream (June 21, 2025)



Photo 31: Shazah Creek: SW16-1 downstream (June 22, 2025)



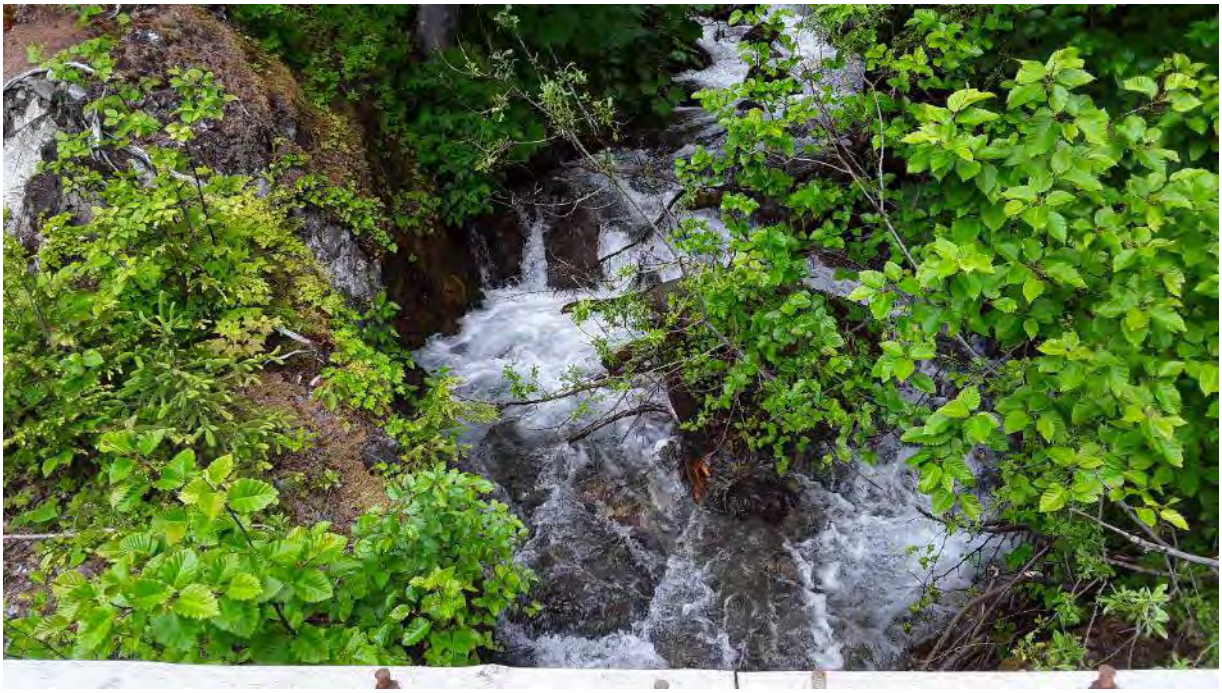
Photo 32: Tulsequah River: TUL-03 cross-section (June 23, 2025)



Photo 33: Shazah Creek: W27 downstream (June 23, 2025)



Photo 34: Dawn Creek: SW24-2 upstream (June 23, 2025)



Photolog – July 2025

Photo 1: Tulsequah River - Zone 2 overview (July 20, 2025)



Photo 2: Tulsequah River - Zone 3 overview (July 18, 2025)



Photo 3: Tulsequah River - Zone 4 overview (July 17, 2025)



Photo 4: Tulsequah River - Zone 4 far field overview (July 17, 2025)



Photo 5: Tulsequah River - Limestone Creek overview (July 16, 2025)



Photo 6: Confluence of Tulsequah River (left) and Shazah Creek (right): SW16-1 (July 19, 2025)



Photo 7: Clear water side channel - SW21-2 (July 18, 2025)



Photo 8: Clearwater side channel - SW24-8 downstream (July 17, 2025)



Photo 9: Tulsequah River - W11 upstream (July 18, 2025)



Photo 10: Clear water side channel - W44 (July 18, 2025)



Photo 11: Clear water side channel - W45 (July 18, 2025)



Photo 12: Tulsequah River - Camp Creek Access (July 16, 2025)



Photo 13: Tulsequah River - Mine Effluent Zone (July 20, 2025)



Photo 14: Tulsequah River – TUL-00/W10 (July 20, 2025)



Photo 15: Tulsequah Chief Mine - 5200 Level Adit (July 18, 2025)



Photo 16: Tulsequah Chief Mine - 5400 Level Adit (July 19, 2025)



Photolog – August 2025

Photo 1: Tulsequah River - Zone 1 overview (August 24, 2025)



Photo 2: Tulsequah River – Zone 2 and effluent (August 24, 2025)



Photo 3: Tulsequah River - Zone 3 mixing overview (August 24, 2025)



Photo 4: Tulsequah River - Zone 3 overview (August 22, 2025)



Photo 5: Tulsequah River - Zone 4 far field overview (August 22, 2025)



Photo 6: Tulsequah River – 6400 Level Seepage (August 23, 2025)



Photo 7: Exfiltration Pond outflow (August 23, 2025)



Photo 8: Zone 2 looking downstream (August 23, 2025)



Photo 9: Clearwater side channel - SW24-8 downstream (August 22, 2025)



Photo 10: Tulsequah River – TUL-06 (August 22, 2025)



Photo 11: Tulsequah River – Downstream of Rogers Creek (August, 22, 2025)



Photo 12: Clearwater side channel - W44 (August 22, 2025)



Photolog – September 2025

Photo 1: Tulsequah River - Zones 1 and 2 looking upstream (September 17, 2025)



Photo 2: Tulsequah River – Zone 2 West Side looking upstream (September 16, 2025)



Photo 3: Tulsequah River – Zones 2 and 3 looking upstream (September 16, 2025)



Photo 4: Tulsequah River - Zone 4 looking upstream (September 15, 2025)



Photo 5: Exfiltration pond outflow overview (September 18, 2025)



Photo 6: Rogers Creek (September 16, 2025)



Photo 7: Clearwater Side Channel - SW24-8 (September 15, 2025)



Photo 8: Tulsequah River – Sediment Sampling at TUL-09/W51 (September 16, 2025)



Photo 9: Tulsequah River – Sediment Sampling at W11 (September 17, 2025)



Appendix C Surface Water

Tulsequah Chief Surface Water Monitoring Program 2025 Report

Tulsequah Chief Mine, British Columbia

Teck Resources Limited

SLR Project No.: 234.030071.00002

February 2, 2026

Your P.O. #: WHR413
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your C.O.C. #: 08553598

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/07/04
Report #: R3682110
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C557919
Received: 2025/06/25, 11:15

Sample Matrix: Surface Water
Samples Received: 42

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	42	N/A	2025/06/27	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	38	N/A	2025/06/27	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry	4	N/A	2025/07/03	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Carbon (DOC) (1)	10	N/A	2025/06/27	BBY6SOP-00053	SM 24 5310 B m
Carbon (DOC) (1)	32	N/A	2025/06/30	BBY6SOP-00053	SM 24 5310 B m
Conductivity @25C	42	N/A	2025/06/27	BBY6SOP-00026	SM 24 2510 B m
Fluoride	38	N/A	2025/06/27	BBY6SOP-00037	SM 24 4500-F C m
Fluoride	3	N/A	2025/07/02	BBY6SOP-00037	SM 24 4500-F C m
Fluoride	1	N/A	2025/07/03	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (2)	42	N/A	2025/07/02	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	40	N/A	2025/06/30	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	2	N/A	2025/07/03	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (3)	29	2025/06/30	2025/06/30	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Dissolved) by CV (3)	13	2025/06/30	2025/07/02	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	4	2025/06/30	2025/06/30	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	38	2025/06/30	2025/07/02	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Ion Ratio (Cation sum/Anion sum)	30	N/A	2025/06/30	BBY WI-00033	Auto Calc
Ion Ratio (Cation sum/Anion sum)	8	N/A	2025/07/02	BBY WI-00033	Auto Calc
Ion Ratio (Cation sum/Anion sum)	4	N/A	2025/07/03	BBY WI-00033	Auto Calc
Ion Balance	30	N/A	2025/06/30	BBY WI-00033	Auto Calc
Ion Balance	8	N/A	2025/07/02	BBY WI-00033	Auto Calc
Ion Balance	4	N/A	2025/07/03	BBY WI-00033	Auto Calc
EPH in Water when PAH required	9	2025/06/30	2025/07/02	BBY8SOP-00029	BCMOE BCLM Sep2017 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	40	N/A	2025/06/30	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2025/07/03	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (lab filter) (4)	35	N/A	2025/06/28	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (lab filter) (4)	5	N/A	2025/06/29	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (lab filter) (4)	2	N/A	2025/07/02	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	7	2025/06/28	2025/06/30	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR413
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your C.O.C. #: 08553598

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/07/04
Report #: R3682110
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C557919
Received: 2025/06/25, 11:15

Sample Matrix: Surface Water
Samples Received: 42

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICPMS Digested LL (total)	19	2025/06/28	2025/07/01	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	42	N/A	2025/07/02	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	11	N/A	2025/06/30	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (total)	5	N/A	2025/07/01	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	34	N/A	2025/07/03	BBY6SOP-00016	SM 24 4500-N C m
Nitrogen (Total)	8	N/A	2025/07/04	BBY6SOP-00016	SM 24 4500-N C m
Ammonia-N (Total)	42	N/A	2025/07/02	AB SOP-00007	SM 24 4500 NH3 A G m
Nitrate + Nitrite (N)	42	N/A	2025/06/27	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	42	N/A	2025/06/27	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	42	N/A	2025/06/28	BBY WI-00033	Auto Calc
PAH in Water by GC/MS (SIM)	8	2025/06/30	2025/07/02	BBY8SOP-00021	BCMOE BCLM Jul2017m
PAH in Water by GC/MS (SIM)	1	2025/06/30	2025/07/03	BBY8SOP-00021	BCMOE BCLM Jul2017m
Total LMW, HMW, Total PAH Calc (5)	9	N/A	2025/07/03	BBY WI-00033	Auto Calc
pH @25°C (6)	42	N/A	2025/06/27	BBY6SOP-00026	SM 24 4500-H+ B m
Orthophosphate by Automated Analyzer (7)	1	N/A	2025/06/27	BBY6SOP-00013	SM 24 4500-P E m
Orthophosphate by Automated Analyzer (7)	41	N/A	2025/06/28	BBY6SOP-00013	SM 24 4500-P E m
Total Dissolved Solids (Calculated)	30	N/A	2025/06/30	BBY WI-00033	Calculated Parameter
Total Dissolved Solids (Calculated)	8	N/A	2025/07/02	BBY WI-00033	Calculated Parameter
Total Dissolved Solids (Calculated)	4	N/A	2025/07/03	BBY WI-00033	Calculated Parameter
EPH less PAH in Water by GC/FID (8)	9	N/A	2025/07/03	BBY WI-00033	Auto Calc
Total Kjeldahl Nitrogen (Total)	42	N/A	2025/07/04	BBY WI-00033	Auto Calc
Total Phosphorus Dissolved client FF/FP (9)	42	2025/07/02	2025/07/03	BBY6SOP-00013	SM 24 4500-P E m
Total Suspended Solids (NFR)	38	2025/06/27	2025/06/30	BBY6SOP-00034	SM 24 2540 D m
Total Suspended Solids (NFR)	1	2025/07/02	2025/07/03	BBY6SOP-00034	SM 24 2540 D m
Total Suspended Solids (NFR)	3	2025/07/03	2025/07/04	BBY6SOP-00034	SM 24 2540 D m
VOCs, VH, F1, LH in Water by HS GC/MS	9	N/A	2025/07/01	BBY8SOP-00009 / BBY8SOP-00011 / BBY8SOP-00012	BCMOE BCLM Jul2017 m
Volatile HC-BTEX (10)	9	N/A	2025/07/02	BBY WI-00033	Auto Calc

Remarks:

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR413
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your C.O.C. #: 08553598

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/07/04
Report #: R3682110
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C557919
Received: 2025/06/25, 11:15

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(3) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(4) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.
For Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Total PAHs in Water include: Quinoline, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Acridine, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b&j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
(8) LEPH = EPH (C10 to C19) - (Acenaphthene + Acridine + Anthracene + Fluorene + Naphthalene + Phenanthrene)
HEPH = EPH (C19 to C32) - (Benzo(a)anthracene + Benzo(a)pyrene + Fluoranthene + Pyrene)
(9) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
(10) VPH = VH - (Benzene + Toluene + Ethylbenzene + m & p-Xylene + o-Xylene + Styrene)

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR413
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your C.O.C. #: 08553598

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/07/04
Report #: R3682110
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C557919
Received: 2025/06/25, 11:15

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
04 Jul 2025 18:09:04

Please direct all questions regarding this Certificate of Analysis to:
Nahed Amer, Key Account Specialist
Email: Nahed.AMER@bureauveritas.com
Phone# (604) 734 7276

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ722		DNZ723	DNZ724	DNZ725		
Sampling Date		2025/06/21 17:40		2025/06/22 09:00	2025/06/21 15:00	2025/06/21 17:00		
COC Number		08553598		08553598	08553598	08553598		
	UNITS	W10/TIL-00	QC Batch	SW16-1	TUL-06/SW16-3	SW21-2	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C003902	<0.0050	<0.0050	<0.0050	0.0050	C003902
Calculated Parameters								
Ion Balance (% Difference)	%	0.86	C003236	2.3	1.8	1.6	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	0.98	C003235	0.95	0.96	1.0	0.010	C003235
Nitrate (N)	mg/L	0.041	C002656	0.054	0.048	0.037	0.020	C002656
Calculated Total Dissolved Solids	mg/L	44	C003239	55	41	30	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.14	C002901	0.077	0.18	0.061	0.020	C002901
Misc. Inorganics								
Conductivity	uS/cm	81	C003988	100	79	61	2.0	C003988
Dissolved Organic Carbon (C)	mg/L	<0.50	C004362	<0.50	<0.50	<0.50	0.50	C004362
pH	pH	6.59	C003981	6.90	6.75	6.70	N/A	C003981
Total Suspended Solids	mg/L	29	C003864	72	35	89	1.0	C003864
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C003987	<1.0	<1.0	<1.0	1.0	C003987
Alkalinity (Total as CaCO3)	mg/L	23	C003987	32	23	18	1.0	C003987
Bicarbonate (HCO3)	mg/L	28	C003987	39	28	21	1.0	C003987
Carbonate (CO3)	mg/L	<1.0	C003987	<1.0	<1.0	<1.0	1.0	C003987
Dissolved Fluoride (F)	mg/L	0.057	C004026	<0.050	0.082	<0.050	0.050	C004026
Hydroxide (OH)	mg/L	<1.0	C003987	<1.0	<1.0	<1.0	1.0	C003987
Chloride (Cl)	mg/L	<1.0	C004401	<1.0	<1.0	<1.0	1.0	C004401
Sulphate (SO4)	mg/L	15	C004401	17	13	8.9	1.0	C004401
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C007546	<0.015	<0.015	<0.015	0.015	C007546
Orthophosphate (P)	mg/L	0.0068	C004308	<0.0030	<0.0030	<0.0030	0.0030	C005355
Dissolved Phosphorus (P)	mg/L	<0.0030	C007187	<0.0030	<0.0030	<0.0030	0.0030	C007187
Nitrate plus Nitrite (N)	mg/L	0.041	C003900	0.054	0.048	0.037	0.020	C003900
Total Nitrogen (N)	mg/L	0.182	C006131	0.131	0.227	0.098	0.020	C006131

RDL = Reportable Detection Limit
N/A = Not Applicable

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ726		DNZ727		DNZ728		
Sampling Date		2025/06/23 09:30		2025/06/21 13:45		2025/06/23 11:00		
COC Number		08553598		08553598		08553598		
	UNITS	TUL-03	QC Batch	TUL-05	QC Batch	W27	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C003902	<0.0050	C003902	<0.0050	0.0050	C003902
Calculated Parameters								
Ion Balance (% Difference)	%	2.2	C003236	3.0	C003236	0.95	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	0.95	C003235	0.93	C003235	0.97	0.010	C003235
Nitrate (N)	mg/L	0.044	C002656	0.039	C002656	0.052	0.020	C002656
Calculated Total Dissolved Solids	mg/L	44	C003239	44	C003239	57	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.043	C002901	0.036	C002901	0.049	0.020	C002901
Misc. Inorganics								
Conductivity	uS/cm	81	C003965	82	C003988	110	2.0	C003988
Dissolved Organic Carbon (C)	mg/L	<0.50	C004362	<0.50	C004362	<0.50	0.50	C004362
pH	pH	7.36	C003961	6.75	C003981	7.05	N/A	C003981
Total Suspended Solids	mg/L	22	C008029	26	C003864	75	1.0	C008029
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C003964	<1.0	C003987	<1.0	1.0	C003987
Alkalinity (Total as CaCO3)	mg/L	23	C003964	23	C003987	33	1.0	C003987
Bicarbonate (HCO3)	mg/L	28	C003964	29	C003987	40	1.0	C003987
Carbonate (CO3)	mg/L	<1.0	C003964	<1.0	C003987	<1.0	1.0	C003987
Dissolved Fluoride (F)	mg/L	0.061	C004026	0.052	C004026	0.12	0.050	C004026
Hydroxide (OH)	mg/L	<1.0	C003964	<1.0	C003987	<1.0	1.0	C003987
Chloride (Cl)	mg/L	<1.0	C004401	<1.0	C004401	<1.0	1.0	C004401
Sulphate (SO4)	mg/L	15	C004401	15	C004401	18	1.0	C004401
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C007546	<0.015	C007546	<0.015	0.015	C007546
Orthophosphate (P)	mg/L	<0.0030	C005355	<0.0030	C005355	<0.0030	0.0030	C005355
Dissolved Phosphorus (P)	mg/L	<0.0030	C007187	<0.0030	C007187	<0.0030	0.0030	C007187
Nitrate plus Nitrite (N)	mg/L	0.044	C003900	0.039	C003900	0.052	0.020	C003900
Total Nitrogen (N)	mg/L	0.087	C006131	0.075	C006131	0.101	0.020	C006131

RDL = Reportable Detection Limit
N/A = Not Applicable

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ729		DNZ730			DNZ731		
Sampling Date		2025/06/21 08:45		2025/06/21 09:30			2025/06/21 10:30		
COC Number		08553598		08553598			08553598		
	UNITS	WTP POND	QC Batch	SE-2	RDL	QC Batch	5200 LEVEL ADIT	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	C003908	<0.0050	0.0050	C003902	<0.050 (1)	0.050	C003902
Calculated Parameters									
Ion Balance (% Difference)	%	2.0	C003236	2.8	N/A	C003236	5.1	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	1.0	C003235	1.1	0.010	C003235	1.1	0.010	C003235
Nitrate (N)	mg/L	<0.020	C002656	0.082	0.020	C002656	<0.20	0.20	C002656
Calculated Total Dissolved Solids	mg/L	320	C003239	340	5.0	C003239	920	10	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.078	C002901	0.078	0.020	C002901	<0.40	0.40	C002901
Misc. Inorganics									
Conductivity	uS/cm	520	C003965	670	2.0	C003988	1600	2.0	C003965
Dissolved Organic Carbon (C)	mg/L	1.2	C004362	<0.50	0.50	C004362	<0.50	0.50	C004362
pH	pH	7.31	C003961	3.64	N/A	C003981	3.06	N/A	C003961
Total Suspended Solids	mg/L	2.4	C003864	19	1.0	C003864	16	1.0	C003864
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	C003964	<1.0	1.0	C003987	<1.0	1.0	C003964
Alkalinity (Total as CaCO3)	mg/L	62	C003964	<1.0	1.0	C003987	<1.0	1.0	C003964
Bicarbonate (HCO3)	mg/L	75	C003964	<1.0	1.0	C003987	<1.0	1.0	C003964
Carbonate (CO3)	mg/L	<1.0	C003964	<1.0	1.0	C003987	<1.0	1.0	C003964
Dissolved Fluoride (F)	mg/L	0.094	C004026	0.45	0.050	C004026	1.1	0.050	C004026
Hydroxide (OH)	mg/L	<1.0	C003964	<1.0	1.0	C003987	<1.0	1.0	C003964
Chloride (Cl)	mg/L	<1.0	C004401	6.1	1.0	C004401	1.2	1.0	C004401
Sulphate (SO4)	mg/L	180	C004401	260	5.0	C004401	720	10	C004401
Nutrients									
Total Ammonia (N)	mg/L	<0.015	C007546	<0.015	0.015	C007546	0.14	0.015	C007546
Orthophosphate (P)	mg/L	<0.0030	C005355	0.0043	0.0030	C005355	0.011	0.0030	C005355
Dissolved Phosphorus (P)	mg/L	0.0057	C007187	<0.0030 (2)	0.0030	C007187	0.040	0.0030	C007187
Nitrate plus Nitrite (N)	mg/L	<0.020	C003905	0.082	0.020	C003900	<0.20 (1)	0.20	C003900

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Detection limit raised due to interferent.
(2) Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ729		DNZ730			DNZ731		
Sampling Date		2025/06/21 08:45		2025/06/21 09:30			2025/06/21 10:30		
COC Number		08553598		08553598			08553598		
	UNITS	WTP POND	QC Batch	SE-2	RDL	QC Batch	5200 LEVEL ADIT	RDL	QC Batch
Total Nitrogen (N)	mg/L	0.078	C006131	0.161	0.020	C006131	<0.40 (1)	0.40	C006131

RDL = Reportable Detection Limit
(1) Detection limits raised due to matrix interference. Nitrogen < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ732			DNZ733		
Sampling Date		2025/06/21 11:00			2025/06/21 11:15		
COC Number		08553598			08553598		
	UNITS	5400 LEVEL ADIT	RDL	QC Batch	5400 CLEAN WATER PIPE	RDL	QC Batch
ANIONS							
Nitrite (N)	mg/L	<0.0050	0.0050	C003902	<0.0050	0.0050	C003902
Calculated Parameters							
Ion Balance (% Difference)	%	2.7	N/A	C003236	0.71	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	1.0	0.010	C003235	1.0	0.010	C003235
Nitrate (N)	mg/L	0.147	0.020	C002656	0.243	0.020	C002656
Calculated Total Dissolved Solids	mg/L	270	5.0	C003239	240	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.093	0.020	C002901	0.069	0.020	C002901
Misc. Inorganics							
Conductivity	uS/cm	520	2.0	C003965	440	2.0	C003965
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	C005899	<0.50	0.50	C005899
pH	pH	3.89	N/A	C003961	6.30	N/A	C003961
Total Suspended Solids	mg/L	30	1.0	C003864	14	1.0	C003865
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	C003964	<1.0	1.0	C003964
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	C003964	35	1.0	C003964
Bicarbonate (HCO3)	mg/L	<1.0	1.0	C003964	43	1.0	C003964
Carbonate (CO3)	mg/L	<1.0	1.0	C003964	<1.0	1.0	C003964
Dissolved Fluoride (F)	mg/L	0.36	0.050	C004026	0.53	0.050	C004026
Hydroxide (OH)	mg/L	<1.0	1.0	C003964	<1.0	1.0	C003964
Chloride (Cl)	mg/L	1.6	1.0	C004401	32	1.0	C004401
Sulphate (SO4)	mg/L	210	5.0	C004401	110	1.0	C004401
Nutrients							
Total Ammonia (N)	mg/L	0.046	0.015	C007546	<0.015	0.015	C007546
Orthophosphate (P)	mg/L	<0.0030	0.0030	C005355	<0.0030	0.0030	C005355
Dissolved Phosphorus (P)	mg/L	<0.0030	0.0030	C007187	<0.0030	0.0030	C007187
Nitrate plus Nitrite (N)	mg/L	0.147	0.020	C003900	0.243	0.020	C003900
Total Nitrogen (N)	mg/L	0.240	0.020	C006131	0.311	0.020	C006131

RDL = Reportable Detection Limit
N/A = Not Applicable

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ734		DNZ735		DNZ736		
Sampling Date		2025/06/20 18:00		2025/06/20 14:45		2025/06/20 16:45		
COC Number		08553598		08553598		08553598		
	UNITS	5900 LEVEL ADIT	QC Batch	CC-01	QC Batch	CC-02	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C003908	<0.0050	C003908	<0.0050	0.0050	C003908
Calculated Parameters								
Ion Balance (% Difference)	%	2.6	C003236	1.1	C003236	2.3	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	1.0	C003235	0.96	C003235	0.94	0.010	C003235
Nitrate (N)	mg/L	0.426	C002656	0.222	C002656	0.209	0.020	C002656
Calculated Total Dissolved Solids	mg/L	170	C003239	47	C003239	47	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.11	C002901	0.066	C002901	0.092	0.020	C002901
Misc. Inorganics								
Conductivity	uS/cm	300	C003965	91	C003965	88	2.0	C003965
Dissolved Organic Carbon (C)	mg/L	<0.50	C005950	0.55	C005950	0.61	0.50	C005950
pH	pH	7.06	C003961	7.07	C003961	7.14	N/A	C003961
Total Suspended Solids	mg/L	6.4	C003864	1.2	C003865	1.2	1.0	C003865
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C003964	<1.0	C003964	<1.0	1.0	C003964
Alkalinity (Total as CaCO3)	mg/L	59	C003964	42	C003964	42	1.0	C003964
Bicarbonate (HCO3)	mg/L	72	C003964	51	C003964	51	1.0	C003964
Carbonate (CO3)	mg/L	<1.0	C003964	<1.0	C003964	<1.0	1.0	C003964
Dissolved Fluoride (F)	mg/L	0.10	C004026	<0.050	C004026	<0.050	0.050	C004026
Hydroxide (OH)	mg/L	<1.0	C003964	<1.0	C003964	<1.0	1.0	C003964
Chloride (Cl)	mg/L	<1.0	C004401	<1.0	C004401	<1.0	1.0	C004401
Sulphate (SO4)	mg/L	79	C004401	3.7	C004401	3.5	1.0	C004401
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C007558	<0.015	C007558	<0.015	0.015	C007558
Orthophosphate (P)	mg/L	<0.0030	C005355	<0.0030	C005355	<0.0030	0.0030	C005355
Dissolved Phosphorus (P)	mg/L	<0.0030	C007187	<0.0030	C007187	<0.0030	0.0030	C007187
Nitrate plus Nitrite (N)	mg/L	0.426	C003905	0.222	C003905	0.209	0.020	C003905
Total Nitrogen (N)	mg/L	0.534	C006131	0.288	C006131	0.301	0.020	C006133

RDL = Reportable Detection Limit
N/A = Not Applicable

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Bureau Veritas Job #: C557919
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SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ737	DNZ738		DNZ739		DNZ740		
Sampling Date		2025/06/20 18:45	2025/06/19 18:45		2025/06/19 13:30		2025/06/20 11:30		
COC Number		08553598	08553598		08553598		08553598		
	UNITS	CC-04	SW24-1	QC Batch	SW24-11	QC Batch	W11	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	<0.0050	C003908	<0.0050	C003908	<0.0050	0.0050	C003908
Calculated Parameters									
Ion Balance (% Difference)	%	0.69	2.1	C003236	3.4	C003236	5.8	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	0.98	0.96	C003235	0.93	C003235	1.1	0.010	C003235
Nitrate (N)	mg/L	0.070	0.055	C003350	0.073	C003350	0.135	0.020	C003350
Calculated Total Dissolved Solids	mg/L	36	44	C003239	64	C003239	160	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.11	0.047	C002901	0.062	C002901	0.090	0.020	C002901
Misc. Inorganics									
Conductivity	uS/cm	70	82	C003965	120	C003965	300	2.0	C003965
Dissolved Organic Carbon (C)	mg/L	0.52	<0.50	C005950	<0.50	C005950	<0.50	0.50	C005950
pH	pH	6.99	6.79	C003961	7.09	C003961	6.23	N/A	C003961
Total Suspended Solids	mg/L	10	32	C003865	74	C003865	12	1.0	C003865
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	C003964	<1.0	C003964	<1.0	1.0	C003964
Alkalinity (Total as CaCO3)	mg/L	34	25	C003964	35	C003964	22	1.0	C003964
Bicarbonate (HCO3)	mg/L	41	31	C003964	43	C003964	26	1.0	C003964
Carbonate (CO3)	mg/L	<1.0	<1.0	C003964	<1.0	C003964	<1.0	1.0	C003964
Dissolved Fluoride (F)	mg/L	<0.050	<0.050	C004026	0.099	C004026	0.18	0.050	C004028
Hydroxide (OH)	mg/L	<1.0	<1.0	C003964	<1.0	C003964	<1.0	1.0	C003964
Chloride (Cl)	mg/L	<1.0	<1.0	C004401	<1.0	C004401	1.5	1.0	C004412
Sulphate (SO4)	mg/L	1.7	14	C004401	21	C004401	96	1.0	C004412
Nutrients									
Total Ammonia (N)	mg/L	<0.015	<0.015	C007558	<0.015	C007558	<0.015	0.015	C007558
Orthophosphate (P)	mg/L	<0.0030	<0.0030	C005355	<0.0030	C005477	<0.0030	0.0030	C005378
Dissolved Phosphorus (P)	mg/L	<0.0030	<0.0030	C007187	<0.0030	C007187	<0.0030	0.0030	C007190
Nitrate plus Nitrite (N)	mg/L	0.070	0.055	C003905	0.073	C003905	0.135	0.020	C003905
Total Nitrogen (N)	mg/L	0.179	0.101	C006133	0.135	C006133	0.225	0.020	C006133

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ741	DNZ742	DNZ743		DNZ744		
Sampling Date		2025/06/19 16:30	2025/06/19 17:15	2025/06/20 13:45		2025/06/23 12:00		
COC Number		08553598	08553598	08553598		08553598		
	UNITS	W44	W45	W46/SW21-4	QC Batch	SW24-2	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	<0.0050	<0.0050	C003908	<0.0050	0.0050	C003908
Calculated Parameters								
Ion Balance (% Difference)	%	1.6	1.0	2.8	C003236	3.7	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	0.97	0.98	0.94	C003235	0.92	0.010	C003235
Nitrate (N)	mg/L	0.064	0.090	0.065	C003350	0.065	0.020	C003350
Calculated Total Dissolved Solids	mg/L	100	89	61	C003239	44	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.074	0.063	0.047	C002901	0.079	0.020	C002901
Misc. Inorganics								
Conductivity	uS/cm	190	170	110	C003965	84	2.0	C003965
Dissolved Organic Carbon (C)	mg/L	<0.50	<0.50	<0.50	C005950	<0.50	0.50	C005950
pH	pH	7.51	7.38	7.05	C003961	7.15	N/A	C003961
Total Suspended Solids	mg/L	2.0	<1.0	60	C003865	2.0	1.0	C008029
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	<1.0	C003964	<1.0	1.0	C003964
Alkalinity (Total as CaCO3)	mg/L	65	60	34	C003964	42	1.0	C003964
Bicarbonate (HCO3)	mg/L	80	74	41	C003964	51	1.0	C003964
Carbonate (CO3)	mg/L	<1.0	<1.0	<1.0	C003964	<1.0	1.0	C003964
Dissolved Fluoride (F)	mg/L	0.064	0.052	0.092	C004028	<0.050	0.050	C004028
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	C003964	<1.0	1.0	C003964
Chloride (Cl)	mg/L	<1.0	<1.0	<1.0	C004412	<1.0	1.0	C004412
Sulphate (SO4)	mg/L	26	21	21	C004412	2.1	1.0	C004412
Nutrients								
Total Ammonia (N)	mg/L	<0.015	<0.015	<0.015	C007558	<0.015	0.015	C007558
Orthophosphate (P)	mg/L	<0.0030	<0.0030	<0.0030	C005378	<0.0030	0.0030	C005378
Dissolved Phosphorus (P)	mg/L	<0.0030	<0.0030	<0.0030	C007190	<0.0030	0.0030	C007190
Nitrate plus Nitrite (N)	mg/L	0.064	0.090	0.065	C003905	0.065	0.020	C003905
Total Nitrogen (N)	mg/L	0.138	0.153	0.112	C006133	0.143	0.020	C006133

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ745		DNZ746		DNZ747		DNZ748		
Sampling Date		2025/06/19 12:30		2025/06/19 13:55		2025/06/19 10:15		2025/06/19 09:30		
COC Number		08553598		08553598		08553598		08553598		
	UNITS	SW16-8	QC Batch	SW21-5	QC Batch	SW24-4	QC Batch	TUL-09/W51	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C003908	<0.0050	C003908	<0.0050	C003908	<0.0050	0.0050	C003908
Calculated Parameters										
Ion Balance (% Difference)	%	4.6	C003236	0.16	C003236	1.4	C003236	1.8	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	0.89	C003235	0.99	C003235	0.97	C003235	0.96	0.010	C003235
Nitrate (N)	mg/L	0.331	C003350	0.040	C003350	0.068	C003350	0.065	0.020	C003350
Calculated Total Dissolved Solids	mg/L	55	C003239	40	C003239	70	C003239	59	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.11	C002901	0.10	C002901	0.066	C002901	0.060	0.020	C002901
Misc. Inorganics										
Conductivity	uS/cm	110	C003965	78	C004788	130	C003965	110	2.0	C003988
Dissolved Organic Carbon (C)	mg/L	0.85	C005950	<0.50	C005950	<0.50	C005950	<0.50	0.50	C005950
pH	pH	7.39	C003961	7.03	C004789	7.28	C003961	6.88	N/A	C003981
Total Suspended Solids	mg/L	1.2	C003865	18	C003865	10	C003865	67	1.0	C003865
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C003964	<1.0	C004786	<1.0	C003964	<1.0	1.0	C003987
Alkalinity (Total as CaCO3)	mg/L	49	C003964	33	C004786	40	C003964	32	1.0	C003987
Bicarbonate (HCO3)	mg/L	60	C003964	41	C004786	48	C003964	39	1.0	C003987
Carbonate (CO3)	mg/L	<1.0	C003964	<1.0	C004786	<1.0	C003964	<1.0	1.0	C003987
Dissolved Fluoride (F)	mg/L	<0.050	C004028	<0.050	C004028	0.093	C004028	0.094	0.050	C004028
Hydroxide (OH)	mg/L	<1.0	C003964	<1.0	C004786	<1.0	C003964	<1.0	1.0	C003987
Chloride (Cl)	mg/L	<1.0	C004412	<1.0	C004412	<1.0	C004412	<1.0	1.0	C004412
Sulphate (SO4)	mg/L	4.7	C004412	5.1	C004412	22	C004412	20	1.0	C004412
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C007558	<0.015	C007558	<0.015	C007558	<0.015	0.015	C007558
Orthophosphate (P)	mg/L	<0.0030	C005378	<0.0030	C005378	<0.0030	C005378	<0.0030	0.0030	C005378
Dissolved Phosphorus (P)	mg/L	<0.0030	C007190	<0.0030	C007190	<0.0030	C007190	<0.0030	0.0030	C007190
Nitrate plus Nitrite (N)	mg/L	0.331	C003905	0.040	C003905	0.068	C003905	0.065	0.020	C003905
Total Nitrogen (N)	mg/L	0.439	C006133	0.141	C006133	0.134	C006133	0.125	0.020	C006133

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N/A = Not Applicable

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ749		DNZ750	DNZ751	DNZ752	DNZ753		
Sampling Date		2025/06/20 09:50		2025/06/18 13:00	2025/06/18 09:30	2025/06/18 15:00	2025/06/19 08:40		
COC Number		08553598		08553598	08553598	08553598	08553598		
	UNITS	SW24-5	QC Batch	SW24-6	SW24-7	SW24-8	SW24-10	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	C003893	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C003908
Calculated Parameters									
Ion Balance (% Difference)	%	4.0	C003236	1.8	3.0	0.42	2.9	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	0.92	C003235	0.96	0.93	0.97	0.94	0.010	C003235
Nitrate (N)	mg/L	<0.020	C003350	0.060	0.057	0.325	0.068	0.020	C003350
Calculated Total Dissolved Solids	mg/L	20	C003239	52	54	78	60	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.071	C002901	0.052	0.061	0.10	0.063	0.020	C002901
Misc. Inorganics									
Conductivity	uS/cm	39	C003965	98	100	150	110	2.0	C004788
Dissolved Organic Carbon (C)	mg/L	<0.50	C005950	<0.50	<0.50	<0.50	<0.50	0.50	C005950
pH	pH	6.72	C003961	7.01	6.98	7.55	7.12	N/A	C004789
Total Suspended Solids	mg/L	1.6	C003865	16	27	<1.0	64	1.0	C003865
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	C003964	<1.0	<1.0	<1.0	<1.0	1.0	C004786
Alkalinity (Total as CaCO3)	mg/L	20	C003964	30	29	55	33	1.0	C004786
Bicarbonate (HCO3)	mg/L	25	C003964	36	36	67	41	1.0	C004786
Carbonate (CO3)	mg/L	<1.0	C003964	<1.0	<1.0	<1.0	<1.0	1.0	C004786
Dissolved Fluoride (F)	mg/L	<0.050	C004028	<0.050	0.065	0.060	0.090	0.050	C004028
Hydroxide (OH)	mg/L	<1.0	C003964	<1.0	<1.0	<1.0	<1.0	1.0	C004786
Chloride (Cl)	mg/L	<1.0	C004412	<1.0	<1.0	<1.0	<1.0	1.0	C004412
Sulphate (SO4)	mg/L	<1.0	C004412	16	18	16	20	1.0	C004412
Nutrients									
Total Ammonia (N)	mg/L	<0.015	C007558	<0.015	<0.015	<0.015	<0.015	0.015	C007558
Orthophosphate (P)	mg/L	<0.0030	C005485	<0.0030	<0.0030	<0.0030	<0.0030	0.0030	C005378
Dissolved Phosphorus (P)	mg/L	<0.0030	C007190	<0.0030	<0.0030	<0.0030	<0.0030	0.0030	C007190
Nitrate plus Nitrite (N)	mg/L	<0.020	C003891	0.060	0.057	0.325	0.068	0.020	C003905
Total Nitrogen (N)	mg/L	0.071	C006133	0.112	0.117	0.425	0.131	0.020	C006133

RDL = Reportable Detection Limit
N/A = Not Applicable

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ754	DNZ755		DNZ756		DNZ757		
Sampling Date		2025/06/18 17:15	2025/06/18 11:00		2025/06/18 10:45		2025/06/20 13:30		
COC Number		08553598	08553598		08553598		08553598		
	UNITS	TUL-12	W32/TUL-15	QC Batch	25-06-DUP01	QC Batch	25-06-DUP02	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	<0.0050	C003893	<0.0050	C003893	<0.0050	0.0050	C003893
Calculated Parameters									
Ion Balance (% Difference)	%	2.8	2.8	C003236	0.25	C003236	4.2	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	0.94	0.94	C003235	1.0	C003235	1.1	0.010	C003235
Nitrate (N)	mg/L	0.076	0.056	C003350	0.073	C003350	0.132	0.020	C003350
Calculated Total Dissolved Solids	mg/L	63	53	C003239	62	C003239	160	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.056	0.12	C002901	0.033	C002901	<0.020	0.020	C002901
Misc. Inorganics									
Conductivity	uS/cm	120	100	C004788	120	C004788	290	2.0	C004788
Dissolved Organic Carbon (C)	mg/L	<0.50	<0.50	C005991	<0.50	C005991	<0.50	0.50	C005991
pH	pH	7.32	7.04	C004789	7.32	C004789	6.28	N/A	C004789
Total Suspended Solids	mg/L	9.2	24	C003863	15	C003865	10	1.0	C004847
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Alkalinity (Total as CaCO3)	mg/L	42	28	C004786	41	C004786	21	1.0	C004786
Bicarbonate (HCO3)	mg/L	52	35	C004786	50	C004786	25	1.0	C004786
Carbonate (CO3)	mg/L	<1.0	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Dissolved Fluoride (F)	mg/L	<0.050	0.066	C004028	<0.050	C004028	0.19	0.050	C004028
Hydroxide (OH)	mg/L	<1.0	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Chloride (Cl)	mg/L	<1.0	<1.0	C004412	<1.0	C004412	1.6	1.0	C004412
Sulphate (SO4)	mg/L	16	18	C004412	15	C004412	97	1.0	C004412
Nutrients									
Total Ammonia (N)	mg/L	<0.015	<0.015	C007577	<0.015	C007577	<0.015	0.015	C007577
Orthophosphate (P)	mg/L	<0.0030	<0.0030	C005378	<0.0030	C005378	<0.0030	0.0030	C005378
Dissolved Phosphorus (P)	mg/L	<0.0030	<0.0030	C007190	<0.0030	C007190	<0.0030	0.0030	C007190
Nitrate plus Nitrite (N)	mg/L	0.076	0.056	C003891	0.073	C003891	0.132	0.020	C003891
Total Nitrogen (N)	mg/L	0.133	0.173	C006133	0.107	C008622	0.133	0.020	C008622

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ758			DNZ759		DNZ760		
Sampling Date		2025/06/21 09:30			2025/06/22 09:05		2025/06/18 17:00		
COC Number		08553598			08553598		08553598		
	UNITS	25-06-DUP03	RDL	QC Batch	25-06-DUP04	QC Batch	25-06-FB01	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	0.0050	C003893	<0.0050	C003893	<0.0050	0.0050	C003893
Calculated Parameters									
Ion Balance (% Difference)	%	0.57	N/A	C003236	0.85	C003236	NC	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	1.0	0.010	C003235	0.97	C003235	NC	0.010	C003235
Nitrate (N)	mg/L	0.080	0.020	C003350	0.056	C003350	<0.020	0.020	C003350
Calculated Total Dissolved Solids	mg/L	330	5.0	C003239	54	C003239	<1.0	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.021	0.020	C002901	0.049	C002901	0.040	0.020	C002901
Misc. Inorganics									
Conductivity	uS/cm	670	2.0	C004788	98	C004788	<2.0	2.0	C004788
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	C005991	<0.50	C005991	<0.50	0.50	C005991
pH	pH	3.62	N/A	C004789	6.77	C004789	6.18	N/A	C004789
Total Suspended Solids	mg/L	19	1.0	C004847	67	C003863	<1.0	1.0	C003863
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	C004786	30	C004786	<1.0	1.0	C004786
Bicarbonate (HCO3)	mg/L	<1.0	1.0	C004786	37	C004786	<1.0	1.0	C004786
Carbonate (CO3)	mg/L	<1.0	1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Dissolved Fluoride (F)	mg/L	0.47	0.050	C004028	0.085	C004028	<0.050	0.050	C007088
Hydroxide (OH)	mg/L	<1.0	1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Chloride (Cl)	mg/L	5.6	1.0	C004412	<1.0	C004412	<1.0	1.0	C008037
Sulphate (SO4)	mg/L	260	5.0	C004412	17	C004412	<1.0	1.0	C008037
Nutrients									
Total Ammonia (N)	mg/L	0.024	0.015	C007577	<0.015	C007577	<0.015	0.015	C007577
Orthophosphate (P)	mg/L	<0.0030	0.0030	C005485	<0.0030	C005485	<0.0030	0.0030	C005485
Dissolved Phosphorus (P)	mg/L	<0.0030	0.0030	C007190	<0.0030	C007190	<0.0030	0.0030	C007193
Nitrate plus Nitrite (N)	mg/L	0.080	0.020	C003891	0.056	C003891	<0.020	0.020	C003891
Total Nitrogen (N)	mg/L	0.101	0.020	C008622	0.105	C008622	0.040	0.020	C008622

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
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Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DNZ761		DNZ762		DNZ763		
Sampling Date		2025/06/19 16:15		2025/06/21 09:40		2025/06/25		
COC Number		08553598		08553598		08553598		
	UNITS	25-06-FB02	QC Batch	25-06-FB03	QC Batch	25-06-TB01	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C003893	<0.0050	C003893	<0.0050	0.0050	C003893
Calculated Parameters								
Ion Balance (% Difference)	%	NC	C003236	NC	C003236	NC	N/A	C003236
Ion Ratio (cation sum / anion sum)	N/A	NC	C003235	NC	C003235	NC	0.010	C003235
Nitrate (N)	mg/L	<0.020	C003350	<0.020	C003350	<0.020	0.020	C003350
Calculated Total Dissolved Solids	mg/L	<1.0	C003239	<1.0	C003239	<1.0	1.0	C003239
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	C002901	0.034	C002901	<0.020	0.020	C002901
Misc. Inorganics								
Conductivity	uS/cm	<2.0	C004788	<2.0	C004788	<2.0	2.0	C004788
Dissolved Organic Carbon (C)	mg/L	<0.50	C005991	<0.50	C005991	<0.50	0.50	C005991
pH	pH	5.80	C004789	5.71	C004789	5.65	N/A	C004789
Total Suspended Solids	mg/L	<1.0	C003863	<1.0	C003863	<1.0	1.0	C007103
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Alkalinity (Total as CaCO3)	mg/L	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Bicarbonate (HCO3)	mg/L	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Carbonate (CO3)	mg/L	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Dissolved Fluoride (F)	mg/L	<0.050	C007583	<0.050	C007088	<0.050	0.050	C007088
Hydroxide (OH)	mg/L	<1.0	C004786	<1.0	C004786	<1.0	1.0	C004786
Chloride (Cl)	mg/L	<1.0	C008037	<1.0	C008037	<1.0	1.0	C008037
Sulphate (SO4)	mg/L	<1.0	C008037	<1.0	C008037	<1.0	1.0	C008037
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C007577	<0.015	C007577	<0.015	0.015	C007577
Orthophosphate (P)	mg/L	<0.0030	C005477	<0.0030	C005477	<0.0030 (1)	0.0030	C005485
Dissolved Phosphorus (P)	mg/L	<0.0030	C007193	<0.0030	C007193	<0.0030	0.0030	C007193
Nitrate plus Nitrite (N)	mg/L	<0.020	C003891	<0.020	C003891	<0.020	0.020	C003891
Total Nitrogen (N)	mg/L	<0.020	C008622	0.034	C008622	<0.020	0.020	C008622

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LEPH & HEPH WITH CSR/CCME PAH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ726	DNZ729	DNZ730	DNZ731	DNZ732	DNZ735		
Sampling Date		2025/06/23 09:30	2025/06/21 08:45	2025/06/21 09:30	2025/06/21 10:30	2025/06/21 11:00	2025/06/20 14:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	TUL-03	WTP POND	SE-2	5200 LEVEL ADIT	5400 LEVEL ADIT	CC-01	RDL	QC Batch
Calculated Parameters									
Low Molecular Weight PAH`s	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C002657
High Molecular Weight PAH`s	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C002657
Total PAH	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C002657
Polycyclic Aromatics									
Quinoline	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C006519
Naphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C006519
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C006519
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Phenanthrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Anthracene	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C006519
Acridine	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Fluoranthene	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C006519
Pyrene	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C006519
Benzo(a)anthracene	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C006519
Chrysene	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	C006519
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	C006519
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C006519
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0030	C006519
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C006519
Calculated Parameters									
LEPH (C10-C19 less PAH)	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C002664
HEPH (C19-C32 less PAH)	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C002664
Ext. Pet. Hydrocarbon									
EPH (C10-C19)	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C006520
EPH (C19-C32)	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C006520
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LEPH & HEPH WITH CSR/CCME PAH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ726	DNZ729	DNZ730	DNZ731	DNZ732	DNZ735		
Sampling Date		2025/06/23 09:30	2025/06/21 08:45	2025/06/21 09:30	2025/06/21 10:30	2025/06/21 11:00	2025/06/20 14:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	TUL-03	WTP POND	SE-2	5200 LEVEL ADIT	5400 LEVEL ADIT	CC-01	RDL	QC Batch
Surrogate Recovery (%)									
O-TERPHENYL (sur.)	%	115	113	114	117	116	119		C006520
D10-ANTHRACENE (sur.)	%	101	102	100	106	102	106		C006519
D8-ACENAPHTHYLENE (sur.)	%	93	95	95	97	94	96		C006519
D8-NAPHTHALENE (sur.)	%	85	82	81	85	87	90		C006519
TERPHENYL-D14 (sur.)	%	100	101	99	105	102	105		C006519
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LEPH & HEPH WITH CSR/CCME PAH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ758	DNZ762	DNZ763		
Sampling Date		2025/06/21 09:30	2025/06/21 09:40	2025/06/25		
COC Number		08553598	08553598	08553598		
	UNITS	25-06-DUP03	25-06-FB03	25-06-TB01	RDL	QC Batch
Calculated Parameters						
Low Molecular Weight PAH`s	ug/L	<0.10	<0.10	<0.10	0.10	C002657
High Molecular Weight PAH`s	ug/L	<0.050	<0.050	<0.050	0.050	C002657
Total PAH	ug/L	<0.10	<0.10	<0.10	0.10	C002657
Polycyclic Aromatics						
Quinoline	ug/L	<0.020	<0.020	<0.020	0.020	C006519
Naphthalene	ug/L	<0.10	<0.10	<0.10	0.10	C006519
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	0.10	C006519
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Acenaphthene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Fluorene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Phenanthrene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Anthracene	ug/L	<0.010	<0.010	<0.010	0.010	C006519
Acridine	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Fluoranthene	ug/L	<0.020	<0.020	<0.020	0.020	C006519
Pyrene	ug/L	<0.020	<0.020	<0.020	0.020	C006519
Benzo(a)anthracene	ug/L	<0.010	<0.010	<0.010	0.010	C006519
Chrysene	ug/L	<0.020	<0.020	<0.020	0.020	C006519
Benzo(b&j)fluoranthene	ug/L	<0.030	<0.030	<0.030	0.030	C006519
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Benzo(a)pyrene	ug/L	<0.0050	<0.0050	<0.0050	0.0050	C006519
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Dibenz(a,h)anthracene	ug/L	<0.0030	<0.0030	<0.0030	0.0030	C006519
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	0.050	C006519
Calculated Parameters						
LEPH (C10-C19 less PAH)	mg/L	<0.20	<0.20	<0.20	0.20	C002664
HEPH (C19-C32 less PAH)	mg/L	<0.20	<0.20	<0.20	0.20	C002664
Ext. Pet. Hydrocarbon						
EPH (C10-C19)	mg/L	<0.20	<0.20	<0.20	0.20	C006520
EPH (C19-C32)	mg/L	<0.20	<0.20	<0.20	0.20	C006520
RDL = Reportable Detection Limit						

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LEPH & HEPH WITH CSR/CCME PAH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ758	DNZ762	DNZ763		
Sampling Date		2025/06/21 09:30	2025/06/21 09:40	2025/06/25		
COC Number		08553598	08553598	08553598		
	UNITS	25-06-DUP03	25-06-FB03	25-06-TB01	RDL	QC Batch
Surrogate Recovery (%)						
O-TERPHENYL (sur.)	%	113	118	117		C006520
D10-ANTHRACENE (sur.)	%	101	104	103		C006519
D8-ACENAPHTHYLENE (sur.)	%	92	95	96		C006519
D8-NAPHTHALENE (sur.)	%	81	94	92		C006519
TERPHENYL-D14 (sur.)	%	99	103	102		C006519
RDL = Reportable Detection Limit						

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ722	DNZ723	DNZ724	DNZ725	DNZ726	DNZ727		
Sampling Date		2025/06/21 17:40	2025/06/22 09:00	2025/06/21 15:00	2025/06/21 17:00	2025/06/23 09:30	2025/06/21 13:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	W10/TIL-00	SW16-1	TUL-06/SW16-3	SW21-2	TUL-03	TUL-05	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	34.4	45.2	33.3	26.4	33.9	33.9	0.50	C003320
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	11.6	15.6	10.9	8.16	11.4	11.4	0.050	C002767
Dissolved Magnesium (Mg)	mg/L	1.34	1.49	1.50	1.45	1.29	1.34	0.050	C002767
Dissolved Potassium (K)	mg/L	1.13	0.720	0.961	0.666	1.10	1.11	0.050	C002767
Dissolved Sodium (Na)	mg/L	0.706	0.572	0.523	0.180	0.678	0.700	0.050	C002767
Dissolved Sulphur (S)	mg/L	5.3	5.9	4.6	3.2	5.0	5.0	3.0	C002767
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	50.2	27.7	25.3	9.52	40.3	45.8	0.50	C004932
Dissolved Antimony (Sb)	ug/L	0.105	0.212	0.078	0.029	0.106	0.113	0.020	C004932
Dissolved Arsenic (As)	ug/L	0.449	0.465	0.288	0.069	0.427	0.422	0.020	C004932
Dissolved Barium (Ba)	ug/L	15.5	17.3	22.1	27.9	15.9	15.8	0.020	C004932
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C004932
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C004932
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C004932
Dissolved Cadmium (Cd)	ug/L	0.0067	0.0142	0.0119	0.0116	0.0080	0.0103	0.0050	C004932
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C004932
Dissolved Cobalt (Co)	ug/L	0.0393	0.0363	0.0441	0.0397	0.0410	0.0408	0.0050	C004932
Dissolved Copper (Cu)	ug/L	0.155	0.173	0.209	0.322	0.135	0.177	0.050	C004932
Dissolved Iron (Fe)	ug/L	5.0	9.3	6.8	11.0	4.9	5.9	1.0	C004932
Dissolved Lead (Pb)	ug/L	0.0130	0.0143	0.0133	0.0074	0.0117	0.0140	0.0050	C004932
Dissolved Lithium (Li)	ug/L	<0.50	0.57	<0.50	<0.50	<0.50	<0.50	0.50	C004932
Dissolved Manganese (Mn)	ug/L	3.74	4.67	5.44	7.88	3.45	3.83	0.050	C004932
Dissolved Molybdenum (Mo)	ug/L	2.66	2.34	1.96	0.858	2.59	2.62	0.050	C004932
Dissolved Nickel (Ni)	ug/L	0.342	0.766	0.566	0.987	0.360	0.364	0.020	C004932
Dissolved Selenium (Se)	ug/L	0.151	0.186	0.188	0.142	0.162	0.145	0.040	C004932
Dissolved Silicon (Si)	ug/L	956	1010	848	491	945	950	50	C004932
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C004932
Dissolved Strontium (Sr)	ug/L	51.7	76.9	45.2	29.0	49.8	51.2	0.050	C004932
Dissolved Thallium (Tl)	ug/L	0.0044	0.0095	0.0051	0.0057	0.0043	0.0039	0.0020	C004932

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ722	DNZ723	DNZ724	DNZ725	DNZ726	DNZ727		
Sampling Date		2025/06/21 17:40	2025/06/22 09:00	2025/06/21 15:00	2025/06/21 17:00	2025/06/23 09:30	2025/06/21 13:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	W10/TIL-00	SW16-1	TUL-06/SW16-3	SW21-2	TUL-03	TUL-05	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C004932
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C004932
Dissolved Uranium (U)	ug/L	0.289	0.242	0.135	0.0470	0.263	0.254	0.0020	C004932
Dissolved Vanadium (V)	ug/L	0.24	<0.20	<0.20	<0.20	0.24	0.24	0.20	C004932
Dissolved Zinc (Zn)	ug/L	0.11	0.16	0.20	0.24	0.11	0.25	0.10	C004932
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C004932
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ728	DNZ729		DNZ730		DNZ731		
Sampling Date		2025/06/23 11:00	2025/06/21 08:45		2025/06/21 09:30		2025/06/21 10:30		
COC Number		08553598	08553598		08553598		08553598		
	UNITS	W27	WTP POND	RDL	SE-2	RDL	5200 LEVEL ADIT	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	48.9	252	0.50	173	0.50	414	0.50	C003320
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	17.0	90.8	0.050	58.7	0.50	136	1.0	C002767
Dissolved Magnesium (Mg)	mg/L	1.54	6.08	0.050	6.36	0.50	18.4	1.0	C002767
Dissolved Potassium (K)	mg/L	0.291	1.21	0.050	0.83	0.50	1.0	1.0	C002767
Dissolved Sodium (Na)	mg/L	0.412	2.21	0.050	4.18	0.50	4.2	1.0	C002767
Dissolved Sulphur (S)	mg/L	5.9	68.8	3.0	99	30	308	60	C002767
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	26.0	16.7	0.50	6740	5.0	27700	10	C004932
Dissolved Antimony (Sb)	ug/L	0.272	8.23	0.020	0.26	0.20	0.40	0.40	C004932
Dissolved Arsenic (As)	ug/L	0.521	0.398	0.020	0.31	0.20	9.43	0.40	C004932
Dissolved Barium (Ba)	ug/L	12.9	22.1	0.020	27.8	0.20	16.2	0.40	C004932
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.010	0.24	0.10	0.73	0.20	C004932
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	<0.050	0.050	<0.10	0.10	C004932
Dissolved Boron (B)	ug/L	<10	<10	10	<100	100	<200	200	C004932
Dissolved Cadmium (Cd)	ug/L	0.0144	10.6	0.0050	154	0.050	394	0.10	C004932
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	0.10	<1.0	1.0	5.5	2.0	C004932
Dissolved Cobalt (Co)	ug/L	0.0554	1.18	0.0050	5.43	0.050	14.3	0.10	C004932
Dissolved Copper (Cu)	ug/L	0.214	26.4	0.050	7290	0.50	25100	1.0	C004932
Dissolved Iron (Fe)	ug/L	13.2	93.3	1.0	1120	10	34200	20	C004932
Dissolved Lead (Pb)	ug/L	0.0162	0.0301	0.0050	97.8	0.050	251	0.10	C004932
Dissolved Lithium (Li)	ug/L	0.83	5.81	0.50	9.9	5.0	23	10	C004932
Dissolved Manganese (Mn)	ug/L	9.06	75.5	0.050	334	0.50	533	1.0	C004932
Dissolved Molybdenum (Mo)	ug/L	2.04	0.382	0.050	<0.50	0.50	<1.0	1.0	C004932
Dissolved Nickel (Ni)	ug/L	0.929	5.55	0.020	8.42	0.20	17.2	0.40	C004932
Dissolved Selenium (Se)	ug/L	0.202	0.091	0.040	<0.40	0.40	<0.80	0.80	C004932
Dissolved Silicon (Si)	ug/L	908	3730	50	6640	500	9470	1000	C004932
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	0.066	0.050	0.19	0.10	C004932
Dissolved Strontium (Sr)	ug/L	96.1	235	0.050	234	0.50	667	1.0	C004932
Dissolved Thallium (Tl)	ug/L	0.0077	0.0107	0.0020	0.241	0.020	1.08	0.040	C004932

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ728	DNZ729		DNZ730		DNZ731		
Sampling Date		2025/06/23 11:00	2025/06/21 08:45		2025/06/21 09:30		2025/06/21 10:30		
COC Number		08553598	08553598		08553598		08553598		
	UNITS	W27	WTP POND	RDL	SE-2	RDL	5200 LEVEL ADIT	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	<2.0	2.0	<4.0	4.0	C004932
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	0.50	<5.0	5.0	<10	10	C004932
Dissolved Uranium (U)	ug/L	0.318	0.0855	0.0020	3.67	0.020	19.7	0.040	C004932
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	0.20	<2.0	2.0	<4.0	4.0	C004932
Dissolved Zinc (Zn)	ug/L	0.18	2480	0.10	37900	1.0	95300	2.0	C004932
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	<1.0	1.0	<2.0	2.0	C004932
RDL = Reportable Detection Limit									

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ732		DNZ733		DNZ734	DNZ735		
Sampling Date		2025/06/21 11:00		2025/06/21 11:15		2025/06/20 18:00	2025/06/20 14:45		
COC Number		08553598		08553598		08553598	08553598		
	UNITS	5400 LEVEL ADIT	RDL	5400 CLEAN WATER PIPE	RDL	5900 LEVEL ADIT	CC-01	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	135	0.50	155	0.50	143	43.2	0.50	C003320
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	46.1	0.50	58.1	0.10	52.2	16.6	0.050	C002767
Dissolved Magnesium (Mg)	mg/L	4.87	0.50	2.51	0.10	3.10	0.415	0.050	C002767
Dissolved Potassium (K)	mg/L	0.56	0.50	0.71	0.10	0.752	0.217	0.050	C002767
Dissolved Sodium (Na)	mg/L	2.19	0.50	13.2	0.10	1.44	0.462	0.050	C002767
Dissolved Sulphur (S)	mg/L	80	30	42.9	6.0	29.4	<3.0	3.0	C002767
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	3860	5.0	28.4	1.0	35.8	25.0	0.50	C004932
Dissolved Antimony (Sb)	ug/L	0.21	0.20	13.7	0.040	1.69	0.508	0.020	C004932
Dissolved Arsenic (As)	ug/L	0.28	0.20	0.626	0.040	0.115	1.10	0.020	C004932
Dissolved Barium (Ba)	ug/L	34.3	0.20	22.4	0.040	29.0	10.5	0.020	C004932
Dissolved Beryllium (Be)	ug/L	0.20	0.10	<0.020	0.020	<0.010	<0.010	0.010	C004932
Dissolved Bismuth (Bi)	ug/L	<0.050	0.050	<0.010	0.010	<0.0050	<0.0050	0.0050	C004932
Dissolved Boron (B)	ug/L	<100	100	24	20	<10	<10	10	C004932
Dissolved Cadmium (Cd)	ug/L	176	0.050	46.4	0.010	4.58	0.252	0.0050	C004932
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	<0.20	0.20	<0.10	<0.10	0.10	C004932
Dissolved Cobalt (Co)	ug/L	3.26	0.050	0.901	0.010	3.00	0.0130	0.0050	C004932
Dissolved Copper (Cu)	ug/L	6640	0.50	578	0.10	3.26	6.73	0.050	C004932
Dissolved Iron (Fe)	ug/L	155	10	5.8	2.0	2.3	5.6	1.0	C004932
Dissolved Lead (Pb)	ug/L	96.9	0.050	0.598	0.010	0.0213	0.218	0.0050	C004932
Dissolved Lithium (Li)	ug/L	7.3	5.0	10.2	1.0	2.16	<0.50	0.50	C004932
Dissolved Manganese (Mn)	ug/L	319	0.50	86.2	0.10	41.4	0.622	0.050	C004932
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	2.94	0.10	0.453	0.131	0.050	C004932
Dissolved Nickel (Ni)	ug/L	5.98	0.20	1.66	0.040	2.34	0.064	0.020	C004932
Dissolved Selenium (Se)	ug/L	<0.40	0.40	0.381	0.080	0.200	0.071	0.040	C004932
Dissolved Silicon (Si)	ug/L	4170	500	3850	100	3360	1310	50	C004932
Dissolved Silver (Ag)	ug/L	<0.050	0.050	<0.010	0.010	<0.0050	<0.0050	0.0050	C004932
Dissolved Strontium (Sr)	ug/L	178	0.50	221	0.10	198	34.8	0.050	C004932
Dissolved Thallium (Tl)	ug/L	0.179	0.020	0.0503	0.0040	0.0152	0.0027	0.0020	C004932

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ732		DNZ733		DNZ734	DNZ735		
Sampling Date		2025/06/21 11:00		2025/06/21 11:15		2025/06/20 18:00	2025/06/20 14:45		
COC Number		08553598		08553598		08553598	08553598		
	UNITS	**5400 LEVEL ADIT**	**RDL**	**5400 CLEAN WATER PIPE**	**RDL**	**5900 LEVEL ADIT**	**CC-01**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<2.0	2.0	<0.40	0.40	<0.20	<0.20	0.20	C004932
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<1.0	1.0	<0.50	<0.50	0.50	C004932
Dissolved Uranium (U)	ug/L	2.27	0.020	0.0793	0.0040	0.207	0.0424	0.0020	C004932
Dissolved Vanadium (V)	ug/L	<2.0	2.0	<0.40	0.40	<0.20	<0.20	0.20	C004932
Dissolved Zinc (Zn)	ug/L	42700	1.0	10800	0.20	1300	42.3	0.10	C004932
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<0.20	0.20	<0.10	<0.10	0.10	C004932
RDL = Reportable Detection Limit									

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ736	DNZ737	DNZ738	DNZ739		DNZ740		
Sampling Date		2025/06/20 16:45	2025/06/20 18:45	2025/06/19 18:45	2025/06/19 13:30		2025/06/20 11:30		
COC Number		08553598	08553598	08553598	08553598		08553598		
	UNITS	CC-02	CC-04	SW24-1	SW24-11	RDL	W11	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	42.2	34.1	35.1	51.7	0.50	118	0.50	C003320
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	16.3	13.2	11.4	17.8	0.050	40.0	0.10	C002767
Dissolved Magnesium (Mg)	mg/L	0.366	0.241	1.59	1.78	0.050	4.27	0.10	C002767
Dissolved Potassium (K)	mg/L	0.201	0.121	1.01	0.607	0.050	1.27	0.10	C002767
Dissolved Sodium (Na)	mg/L	0.419	0.246	0.545	0.563	0.050	2.21	0.10	C002767
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	4.7	7.4	3.0	39.6	6.0	C002767
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	25.6	19.2	25.7	27.2	0.50	14.0	1.0	C004932
Dissolved Antimony (Sb)	ug/L	0.461	0.172	0.075	0.268	0.020	0.413	0.040	C004932
Dissolved Arsenic (As)	ug/L	1.05	0.614	0.298	0.581	0.020	0.043	0.040	C004932
Dissolved Barium (Ba)	ug/L	9.47	5.27	22.5	16.9	0.020	31.3	0.040	C004932
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	0.027	0.020	C004932
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	<0.010	0.010	C004932
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	<20	20	C004932
Dissolved Cadmium (Cd)	ug/L	0.220	<0.0050	0.0089	0.0176	0.0050	42.1	0.010	C004932
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	<0.20	0.20	C004932
Dissolved Cobalt (Co)	ug/L	0.0147	<0.0050	0.0397	0.0310	0.0050	2.01	0.010	C004932
Dissolved Copper (Cu)	ug/L	6.17	0.219	0.209	0.235	0.050	1240	0.10	C004932
Dissolved Iron (Fe)	ug/L	5.2	1.9	6.2	11.0	1.0	<2.0	2.0	C004932
Dissolved Lead (Pb)	ug/L	0.212	<0.0050	0.0104	0.0138	0.0050	2.10	0.010	C004932
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	0.73	0.50	3.9	1.0	C004932
Dissolved Manganese (Mn)	ug/L	0.682	0.205	4.04	3.09	0.050	110	0.10	C004932
Dissolved Molybdenum (Mo)	ug/L	0.126	0.085	1.93	2.40	0.050	1.64	0.10	C004932
Dissolved Nickel (Ni)	ug/L	0.060	0.031	0.536	0.811	0.020	3.70	0.040	C004932
Dissolved Selenium (Se)	ug/L	0.071	0.060	0.189	0.218	0.040	0.316	0.080	C004932
Dissolved Silicon (Si)	ug/L	1260	629	888	1060	50	3620	100	C004932
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.014	0.010	C004932
Dissolved Strontium (Sr)	ug/L	32.4	23.1	46.9	95.2	0.050	164	0.10	C004932
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	0.0044	0.0101	0.0020	0.0957	0.0040	C004932

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ736	DNZ737	DNZ738	DNZ739		DNZ740		
Sampling Date		2025/06/20 16:45	2025/06/20 18:45	2025/06/19 18:45	2025/06/19 13:30		2025/06/20 11:30		
COC Number		08553598	08553598	08553598	08553598		08553598		
	UNITS	CC-02	CC-04	SW24-1	SW24-11	RDL	W11	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<0.40	0.40	C004932
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	<1.0	1.0	C004932
Dissolved Uranium (U)	ug/L	0.0423	0.0290	0.194	0.352	0.0020	0.0425	0.0040	C004932
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<0.40	0.40	C004932
Dissolved Zinc (Zn)	ug/L	36.5	<0.10	0.15	0.20	0.10	9670	0.20	C004932
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	<0.20	0.20	C004932
RDL = Reportable Detection Limit									

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LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ741		DNZ742	DNZ743	DNZ744	DNZ745		
Sampling Date		2025/06/19 16:30		2025/06/19 17:15	2025/06/20 13:45	2025/06/23 12:00	2025/06/19 12:30		
COC Number		08553598		08553598	08553598	08553598	08553598		
	UNITS	W44	QC Batch	W45	W46/SW21-4	SW24-2	SW16-8	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	84.6	C003320	76.0	49.7	39.9	47.8	0.50	C003320
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	28.7	C002767	25.7	17.2	15.6	17.8	0.050	C002767
Dissolved Magnesium (Mg)	mg/L	3.15	C002767	2.88	1.60	0.258	0.818	0.050	C002767
Dissolved Potassium (K)	mg/L	1.98	C002767	1.72	0.726	0.222	0.430	0.050	C002767
Dissolved Sodium (Na)	mg/L	1.29	C002767	1.02	0.570	0.247	0.505	0.050	C002767
Dissolved Sulphur (S)	mg/L	9.1	C002767	6.7	6.7	<3.0	<3.0	3.0	C002767
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	2.28	C004932	2.01	27.7	12.5	13.9	0.50	C004929
Dissolved Antimony (Sb)	ug/L	0.129	C004932	0.123	0.238	0.475	0.361	0.020	C004929
Dissolved Arsenic (As)	ug/L	0.422	C004932	0.242	0.534	1.01	0.670	0.020	C004929
Dissolved Barium (Ba)	ug/L	50.9	C004932	47.9	17.4	4.48	21.2	0.020	C004929
Dissolved Beryllium (Be)	ug/L	<0.010	C004932	<0.010	<0.010	<0.010	<0.010	0.010	C004929
Dissolved Bismuth (Bi)	ug/L	<0.0050	C004932	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C004929
Dissolved Boron (B)	ug/L	<10	C004932	<10	<10	<10	<10	10	C004929
Dissolved Cadmium (Cd)	ug/L	<0.0050	C004932	0.0067	0.0157	<0.0050	0.0782	0.0050	C004929
Dissolved Chromium (Cr)	ug/L	0.13	C004932	<0.10	<0.10	<0.10	<0.10	0.10	C004929
Dissolved Cobalt (Co)	ug/L	0.0057	C004932	0.0075	0.0427	0.0084	0.0177	0.0050	C004929
Dissolved Copper (Cu)	ug/L	0.096	C004932	0.180	0.240	0.185	2.49	0.050	C004929
Dissolved Iron (Fe)	ug/L	<1.0	C004932	<1.0	7.7	1.3	6.0	1.0	C004929
Dissolved Lead (Pb)	ug/L	<0.0050	C004932	0.0056	0.0129	0.0053	0.0201	0.0050	C004929
Dissolved Lithium (Li)	ug/L	0.78	C004932	0.74	0.65	<0.50	<0.50	0.50	C004929
Dissolved Manganese (Mn)	ug/L	0.262	C004932	0.069	4.35	0.266	0.417	0.050	C004929
Dissolved Molybdenum (Mo)	ug/L	3.39	C004932	2.10	2.42	0.120	0.308	0.050	C004929
Dissolved Nickel (Ni)	ug/L	0.171	C004932	0.325	0.711	0.038	0.123	0.020	C004929
Dissolved Selenium (Se)	ug/L	0.734	C004932	0.531	0.217	0.083	0.129	0.040	C004929
Dissolved Silicon (Si)	ug/L	1830	C004932	1960	1030	797	1900	50	C004929
Dissolved Silver (Ag)	ug/L	<0.0050	C004932	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C004929
Dissolved Strontium (Sr)	ug/L	104	C004932	89.7	85.9	23.6	37.7	0.050	C004929
Dissolved Thallium (Tl)	ug/L	<0.0020	C004932	<0.0020	0.0092	<0.0020	0.0039	0.0020	C004929

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ741		DNZ742	DNZ743	DNZ744	DNZ745		
Sampling Date		2025/06/19 16:30		2025/06/19 17:15	2025/06/20 13:45	2025/06/23 12:00	2025/06/19 12:30		
COC Number		08553598		08553598	08553598	08553598	08553598		
	UNITS	W44	QC Batch	W45	W46/SW21-4	SW24-2	SW16-8	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	C004932	<0.20	<0.20	<0.20	<0.20	0.20	C004929
Dissolved Titanium (Ti)	ug/L	<0.50	C004932	<0.50	<0.50	<0.50	<0.50	0.50	C004929
Dissolved Uranium (U)	ug/L	0.720	C004932	0.293	0.317	0.0166	0.0663	0.0020	C004929
Dissolved Vanadium (V)	ug/L	<0.20	C004932	<0.20	<0.20	<0.20	<0.20	0.20	C004929
Dissolved Zinc (Zn)	ug/L	0.15	C004932	0.23	0.16	<0.10	4.09	0.10	C004929
Dissolved Zirconium (Zr)	ug/L	<0.10	C004932	<0.10	<0.10	<0.10	<0.10	0.10	C004929
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ746	DNZ747	DNZ748	DNZ749	DNZ750	DNZ751		
Sampling Date		2025/06/19 13:55	2025/06/19 10:15	2025/06/19 09:30	2025/06/20 09:50	2025/06/18 13:00	2025/06/18 09:30		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	SW21-5	SW24-4	TUL-09/W51	SW24-5	SW24-6	SW24-7	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	37.5	58.1	48.5	18.0	41.3	43.0	0.50	C003320
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	13.2	20.1	16.6	6.70	13.9	14.6	0.050	C002767
Dissolved Magnesium (Mg)	mg/L	1.08	1.92	1.70	0.304	1.62	1.56	0.050	C002767
Dissolved Potassium (K)	mg/L	0.167	1.07	0.717	0.116	1.22	0.867	0.050	C002767
Dissolved Sodium (Na)	mg/L	0.301	0.768	0.595	0.287	0.896	0.646	0.050	C002767
Dissolved Sulphur (S)	mg/L	<3.0	7.3	6.8	<3.0	5.1	6.0	3.0	C002767
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	19.4	20.4	28.1	11.0	35.9	32.9	0.50	C004929
Dissolved Antimony (Sb)	ug/L	0.232	0.335	0.222	0.083	0.107	0.246	0.020	C004929
Dissolved Arsenic (As)	ug/L	1.21	0.709	0.635	0.417	0.453	0.578	0.020	C004929
Dissolved Barium (Ba)	ug/L	10.3	25.0	17.4	8.25	22.2	17.4	0.020	C004929
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C004929
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C004929
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C004929
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0209	0.0144	<0.0050	0.0082	0.0122	0.0050	C004929
Dissolved Chromium (Cr)	ug/L	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C004929
Dissolved Cobalt (Co)	ug/L	0.0104	0.0192	0.0202	0.0056	0.0343	0.0379	0.0050	C004929
Dissolved Copper (Cu)	ug/L	0.147	0.253	0.221	0.167	0.187	0.228	0.050	C004929
Dissolved Iron (Fe)	ug/L	4.5	3.3	10.2	1.7	4.8	6.4	1.0	C004929
Dissolved Lead (Pb)	ug/L	<0.0050	0.0108	0.0140	<0.0050	0.0098	0.0117	0.0050	C004929
Dissolved Lithium (Li)	ug/L	<0.50	0.66	0.67	<0.50	<0.50	0.50	0.50	C004929
Dissolved Manganese (Mn)	ug/L	3.97	1.77	2.07	0.153	2.88	4.64	0.050	C004929
Dissolved Molybdenum (Mo)	ug/L	0.406	3.30	2.41	0.087	2.51	2.38	0.050	C004929
Dissolved Nickel (Ni)	ug/L	0.034	0.381	0.784	0.027	0.390	0.577	0.020	C004929
Dissolved Selenium (Se)	ug/L	0.112	0.351	0.205	<0.040	0.232	0.176	0.040	C004929
Dissolved Silicon (Si)	ug/L	480	1170	1020	747	1110	1000	50	C004929
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C004929
Dissolved Strontium (Sr)	ug/L	52.9	93.4	86.7	21.0	57.8	69.1	0.050	C004929
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0103	0.0111	<0.0020	0.0042	0.0061	0.0020	C004929

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ746	DNZ747	DNZ748	DNZ749	DNZ750	DNZ751		
Sampling Date		2025/06/19 13:55	2025/06/19 10:15	2025/06/19 09:30	2025/06/20 09:50	2025/06/18 13:00	2025/06/18 09:30		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	SW21-5	SW24-4	TUL-09/W51	SW24-5	SW24-6	SW24-7	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C004929
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C004929
Dissolved Uranium (U)	ug/L	0.142	0.482	0.321	0.0121	0.313	0.291	0.0020	C004929
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	0.20	C004929
Dissolved Zinc (Zn)	ug/L	<0.10	0.37	0.18	<0.10	<0.10	0.20	0.10	C004929
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C004929
RDL = Reportable Detection Limit									

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ752	DNZ753	DNZ754	DNZ755	DNZ756		DNZ757		
Sampling Date		2025/06/18 15:00	2025/06/19 08:40	2025/06/18 17:15	2025/06/18 11:00	2025/06/18 10:45		2025/06/20 13:30		
COC Number		08553598	08553598	08553598	08553598	08553598		08553598		
	UNITS	SW24-8	SW24-10	TUL-12	W32/TUL-15	25-06-DUP01	RDL	25-06-DUP02	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	64.2	48.5	52.9	41.7	54.3	0.50	113	0.50	C003320
Dissolved Metals by ICPMS										
Dissolved Calcium (Ca)	mg/L	21.5	16.7	18.5	14.2	19.1	0.050	38.5	0.10	C002767
Dissolved Magnesium (Mg)	mg/L	2.55	1.64	1.63	1.51	1.63	0.050	4.11	0.10	C002767
Dissolved Potassium (K)	mg/L	1.75	0.765	0.701	0.894	0.684	0.050	1.28	0.10	C002767
Dissolved Sodium (Na)	mg/L	2.00	0.620	0.747	0.647	0.744	0.050	2.13	0.10	C002767
Dissolved Sulphur (S)	mg/L	5.1	6.8	5.3	6.1	5.3	3.0	38.7	6.0	C002767
Lab Filtered Metals										
Dissolved Aluminum (Al)	ug/L	2.13	30.0	15.6	31.2	16.6	0.50	13.5	1.0	C004929
Dissolved Antimony (Sb)	ug/L	0.130	0.219	0.264	0.175	0.271	0.020	0.404	0.040	C004929
Dissolved Arsenic (As)	ug/L	0.246	0.621	0.958	0.607	0.988	0.020	0.058	0.040	C004929
Dissolved Barium (Ba)	ug/L	46.6	18.0	23.4	17.4	22.7	0.020	31.1	0.040	C004929
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.020	0.020	C004929
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	<0.010	0.010	C004929
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	10	<20	20	C004929
Dissolved Cadmium (Cd)	ug/L	0.0084	0.0148	0.0209	0.0216	0.0208	0.0050	40.9	0.010	C004929
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	<0.20	0.20	C004929
Dissolved Cobalt (Co)	ug/L	0.0110	0.0345	0.0153	0.0499	0.0169	0.0050	2.00	0.010	C004929
Dissolved Copper (Cu)	ug/L	0.339	0.235	0.253	0.304	0.267	0.050	1200	0.10	C004929
Dissolved Iron (Fe)	ug/L	<1.0	10.2	2.1	5.8	2.8	1.0	<2.0	2.0	C004929
Dissolved Lead (Pb)	ug/L	<0.0050	0.0143	0.0062	0.0372	<0.0050	0.0050	2.05	0.010	C004929
Dissolved Lithium (Li)	ug/L	0.64	0.66	<0.50	<0.50	<0.50	0.50	3.8	1.0	C004929
Dissolved Manganese (Mn)	ug/L	0.149	4.08	3.24	5.03	3.57	0.050	109	0.10	C004929
Dissolved Molybdenum (Mo)	ug/L	2.42	2.38	1.58	2.32	1.44	0.050	1.66	0.10	C004929
Dissolved Nickel (Ni)	ug/L	0.307	0.724	0.131	0.557	0.134	0.020	3.72	0.040	C004929
Dissolved Selenium (Se)	ug/L	0.366	0.210	0.228	0.178	0.226	0.040	0.315	0.080	C004929
Dissolved Silicon (Si)	ug/L	2040	1020	959	1000	922	50	3500	100	C004929
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.014	0.010	C004929
Dissolved Strontium (Sr)	ug/L	82.3	81.9	75.9	67.0	75.3	0.050	161	0.10	C004929
Dissolved Thallium (Tl)	ug/L	0.0020	0.0108	0.0033	0.0062	0.0031	0.0020	0.0985	0.0040	C004929

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ752	DNZ753	DNZ754	DNZ755	DNZ756		DNZ757		
Sampling Date		2025/06/18 15:00	2025/06/19 08:40	2025/06/18 17:15	2025/06/18 11:00	2025/06/18 10:45		2025/06/20 13:30		
COC Number		08553598	08553598	08553598	08553598	08553598		08553598		
	UNITS	**SW24-8**	**SW24-10**	**TUL-12**	**W32/TUL-15**	**25-06-DUP01**	**RDL**	**25-06-DUP02**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	<0.40	0.40	C004929
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	<1.0	1.0	C004929
Dissolved Uranium (U)	ug/L	0.282	0.327	0.328	0.310	0.320	0.0020	0.0414	0.0040	C004929
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	<0.40	0.40	C004929
Dissolved Zinc (Zn)	ug/L	0.33	0.21	0.86	0.35	0.99	0.10	9690	0.20	C004929
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	<0.20	0.20	C004929
RDL = Reportable Detection Limit										

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ758		DNZ759	DNZ760	DNZ761		DNZ762		
Sampling Date		2025/06/21 09:30		2025/06/22 09:05	2025/06/18 17:00	2025/06/19 16:15		2025/06/21 09:40		
COC Number		08553598		08553598	08553598	08553598		08553598		
	UNITS	25-06-DUP03	RDL	25-06-DUP04	25-06-FB01	25-06-FB02	QC Batch	25-06-FB03	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	166	0.50	45.0	<0.50	<0.50	C003320	<0.50	0.50	C003320
Dissolved Metals by ICPMS										
Dissolved Calcium (Ca)	mg/L	56.8	0.50	15.6	<0.050	<0.050	C002767	<0.050	0.050	C002767
Dissolved Magnesium (Mg)	mg/L	5.95	0.50	1.46	<0.050	<0.050	C002767	<0.050	0.050	C002767
Dissolved Potassium (K)	mg/L	0.82	0.50	0.722	<0.050	<0.050	C002767	<0.050	0.050	C002767
Dissolved Sodium (Na)	mg/L	4.07	0.50	0.560	<0.050	<0.050	C002767	<0.050	0.050	C002767
Dissolved Sulphur (S)	mg/L	94	30	5.3	<3.0	<3.0	C002767	<3.0	3.0	C002767
Lab Filtered Metals										
Dissolved Aluminum (Al)	ug/L	6270	5.0	28.1	0.80	<0.50	C004929	<0.50	0.50	C007043
Dissolved Antimony (Sb)	ug/L	0.26	0.20	0.216	<0.020	<0.020	C004929	<0.020	0.020	C007043
Dissolved Arsenic (As)	ug/L	0.27	0.20	0.453	<0.020	<0.020	C004929	<0.020	0.020	C007043
Dissolved Barium (Ba)	ug/L	28.0	0.20	16.6	<0.020	<0.020	C004929	<0.020	0.020	C007043
Dissolved Beryllium (Be)	ug/L	0.26	0.10	<0.010	<0.010	<0.010	C004929	<0.010	0.010	C007043
Dissolved Bismuth (Bi)	ug/L	<0.050	0.050	<0.0050	<0.0050	<0.0050	C004929	<0.0050	0.0050	C007043
Dissolved Boron (B)	ug/L	<100	100	<10	<10	<10	C004929	<10	10	C007043
Dissolved Cadmium (Cd)	ug/L	151	0.050	0.0147	<0.0050	<0.0050	C004929	<0.0050	0.0050	C007043
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	<0.10	<0.10	<0.10	C004929	<0.10	0.10	C007043
Dissolved Cobalt (Co)	ug/L	5.20	0.050	0.0436	<0.0050	<0.0050	C004929	<0.0050	0.0050	C007043
Dissolved Copper (Cu)	ug/L	6850	0.50	0.215	<0.050	<0.050	C004929	<0.050	0.050	C007043
Dissolved Iron (Fe)	ug/L	658	10	10.6	<1.0	<1.0	C004929	<1.0	1.0	C007043
Dissolved Lead (Pb)	ug/L	95.8	0.050	0.0164	<0.0050	0.0052	C004929	<0.0050	0.0050	C007043
Dissolved Lithium (Li)	ug/L	9.5	5.0	0.58	<0.50	<0.50	C004929	<0.50	0.50	C007043
Dissolved Manganese (Mn)	ug/L	325	0.50	5.14	<0.050	<0.050	C004929	<0.050	0.050	C007043
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	2.37	<0.050	<0.050	C004929	<0.050	0.050	C007043
Dissolved Nickel (Ni)	ug/L	8.46	0.20	0.768	<0.020	<0.020	C004929	<0.020	0.020	C007043
Dissolved Selenium (Se)	ug/L	<0.40	0.40	0.176	<0.040	<0.040	C004929	<0.040	0.040	C007043
Dissolved Silicon (Si)	ug/L	6480	500	982	<50	<50	C004929	<50	50	C007043
Dissolved Silver (Ag)	ug/L	0.073	0.050	<0.0050	<0.0050	<0.0050	C004929	<0.0050	0.0050	C007043
Dissolved Strontium (Sr)	ug/L	229	0.50	76.5	<0.050	<0.050	C004929	<0.050	0.050	C007043
Dissolved Thallium (Tl)	ug/L	0.247	0.020	0.0093	<0.0020	<0.0020	C004929	<0.0020	0.0020	C007043

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ758		DNZ759	DNZ760	DNZ761		DNZ762		
Sampling Date		2025/06/21 09:30		2025/06/22 09:05	2025/06/18 17:00	2025/06/19 16:15		2025/06/21 09:40		
COC Number		08553598		08553598	08553598	08553598		08553598		
	UNITS	25-06-DUP03	RDL	25-06-DUP04	25-06-FB01	25-06-FB02	QC Batch	25-06-FB03	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<2.0	2.0	<0.20	<0.20	<0.20	C004929	<0.20	0.20	C007043
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<0.50	<0.50	<0.50	C004929	<0.50	0.50	C007043
Dissolved Uranium (U)	ug/L	3.42	0.020	0.239	<0.0020	<0.0020	C004929	<0.0020	0.0020	C007043
Dissolved Vanadium (V)	ug/L	<2.0	2.0	<0.20	<0.20	<0.20	C004929	<0.20	0.20	C007043
Dissolved Zinc (Zn)	ug/L	36600	1.0	0.19	<0.10	<0.10	C004929	<0.10	0.10	C007043
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<0.10	<0.10	<0.10	C004929	<0.10	0.10	C007043
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ763		
Sampling Date		2025/06/25		
COC Number		08553598		
	UNITS	**25-06-TB01**	**RDL**	**QC Batch**
Calculated Parameters				
Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	C003320
Dissolved Metals by ICPMS				
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	C002767
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	C002767
Dissolved Potassium (K)	mg/L	<0.050	0.050	C002767
Dissolved Sodium (Na)	mg/L	<0.050	0.050	C002767
Dissolved Sulphur (S)	mg/L	<3.0	3.0	C002767
Lab Filtered Metals				
Dissolved Aluminum (Al)	ug/L	<0.50	0.50	C007043
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	C007043
Dissolved Arsenic (As)	ug/L	<0.020	0.020	C007043
Dissolved Barium (Ba)	ug/L	<0.020	0.020	C007043
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	C007043
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	C007043
Dissolved Boron (B)	ug/L	<10	10	C007043
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	C007043
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	C007043
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	C007043
Dissolved Copper (Cu)	ug/L	<0.050	0.050	C007043
Dissolved Iron (Fe)	ug/L	<1.0	1.0	C007043
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	C007043
Dissolved Lithium (Li)	ug/L	<0.50	0.50	C007043
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	C007043
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	C007043
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	C007043
Dissolved Selenium (Se)	ug/L	<0.040	0.040	C007043
Dissolved Silicon (Si)	ug/L	<50	50	C007043
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	C007043
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	C007043
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	C007043
RDL = Reportable Detection Limit				

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DNZ763		
Sampling Date		2025/06/25		
COC Number		08553598		
	UNITS	**25-06-TB01**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	0.20	C007043
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	C007043
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	C007043
Dissolved Vanadium (V)	ug/L	<0.20	0.20	C007043
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	C007043
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	C007043
RDL = Reportable Detection Limit				

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Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL D. METALS W/ CV HG-DISS (SURFACE WATER)

Bureau Veritas ID		DNZ722	DNZ723	DNZ724	DNZ725	DNZ726	DNZ727		
Sampling Date		2025/06/21 17:40	2025/06/22 09:00	2025/06/21 15:00	2025/06/21 17:00	2025/06/23 09:30	2025/06/21 13:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	W10/TIL-00	SW16-1	TUL-06/SW16-3	SW21-2	TUL-03	TUL-05	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C006258
RDL = Reportable Detection Limit									

Bureau Veritas ID		DNZ728	DNZ729	DNZ730	DNZ731	DNZ732		
Sampling Date		2025/06/23 11:00	2025/06/21 08:45	2025/06/21 09:30	2025/06/21 10:30	2025/06/21 11:00		
COC Number		08553598	08553598	08553598	08553598	08553598		
	UNITS	W27	WTP POND	SE-2	5200 LEVEL ADIT	5400 LEVEL ADIT	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C006258
RDL = Reportable Detection Limit								

Bureau Veritas ID		DNZ733	DNZ734	DNZ735	DNZ736	DNZ737		
Sampling Date		2025/06/21 11:15	2025/06/20 18:00	2025/06/20 14:45	2025/06/20 16:45	2025/06/20 18:45		
COC Number		08553598	08553598	08553598	08553598	08553598		
	UNITS	5400 CLEAN WATER PIPE	5900 LEVEL ADIT	CC-01	CC-02	CC-04	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C006286
RDL = Reportable Detection Limit								

Bureau Veritas ID		DNZ738	DNZ739	DNZ740	DNZ741	DNZ742	DNZ743		
Sampling Date		2025/06/19 18:45	2025/06/19 13:30	2025/06/20 11:30	2025/06/19 16:30	2025/06/19 17:15	2025/06/20 13:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	SW24-1	SW24-11	W11	W44	W45	W46/SW21-4	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C006286
RDL = Reportable Detection Limit									

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LOW LEVEL D. METALS W/ CV HG-DISS (SURFACE WATER)

Bureau Veritas ID		DNZ744	DNZ745	DNZ746	DNZ747	DNZ748	DNZ749		
Sampling Date		2025/06/23 12:00	2025/06/19 12:30	2025/06/19 13:55	2025/06/19 10:15	2025/06/19 09:30	2025/06/20 09:50		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	SW24-2	SW16-8	SW21-5	SW24-4	TUL-09/W51	SW24-5	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C006286
RDL = Reportable Detection Limit									

Bureau Veritas ID		DNZ750	DNZ751	DNZ752		DNZ753	DNZ754	DNZ755		
Sampling Date		2025/06/18 13:00	2025/06/18 09:30	2025/06/18 15:00		2025/06/19 08:40	2025/06/18 17:15	2025/06/18 11:00		
COC Number		08553598	08553598	08553598		08553598	08553598	08553598		
	UNITS	SW24-6	SW24-7	SW24-8	QC Batch	SW24-10	TUL-12	W32/TUL-15	RDL	QC Batch
Elements										
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	C006286	<0.0019	<0.0019	<0.0019	0.0019	C006554
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNZ756	DNZ757	DNZ758	DNZ759	DNZ760	DNZ761		
Sampling Date		2025/06/18 10:45	2025/06/20 13:30	2025/06/21 09:30	2025/06/22 09:05	2025/06/18 17:00	2025/06/19 16:15		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	25-06-DUP01	25-06-DUP02	25-06-DUP03	25-06-DUP04	25-06-FB01	25-06-FB02	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C006554
RDL = Reportable Detection Limit									

Bureau Veritas ID		DNZ762	DNZ763		
Sampling Date		2025/06/21 09:40	2025/06/25		
COC Number		08553598	08553598		
	UNITS	25-06-FB03	25-06-TB01	RDL	QC Batch
Elements					
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	C006554
RDL = Reportable Detection Limit					

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ735	DNZ736		DNZ740		DNZ741	DNZ742		
Sampling Date		2025/06/20 14:45	2025/06/20 16:45		2025/06/20 11:30		2025/06/19 16:30	2025/06/19 17:15		
COC Number		08553598	08553598		08553598		08553598	08553598		
	UNITS	CC-01	CC-02	RDL	W11	RDL	W44	W45	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	44.3	43.5	0.50	113	0.50	88.4	79.2	0.50	C002447
Elements										
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	<0.0019	0.0019	<0.0019	<0.0019	0.0019	C006572
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	32.1	40.9	0.50	2200	1.0	4.89	3.62	0.50	C005258
Total Antimony (Sb)	ug/L	0.504	0.455	0.020	0.682	0.040	0.132	0.118	0.020	C005258
Total Arsenic (As)	ug/L	1.14	1.15	0.020	6.12	0.040	0.420	0.241	0.020	C005258
Total Barium (Ba)	ug/L	10.8	9.85	0.020	32.0	0.040	53.3	50.5	0.020	C005258
Total Beryllium (Be)	ug/L	<0.010	<0.010	0.010	0.074	0.020	<0.010	<0.010	0.010	C005258
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	<0.010	0.010	<0.0050	<0.0050	0.0050	C005258
Total Boron (B)	ug/L	<10	<10	10	<20	20	<10	<10	10	C005258
Total Cadmium (Cd)	ug/L	0.269	0.235	0.0050	41.9	0.010	<0.0050	0.0089	0.0050	C005258
Total Chromium (Cr)	ug/L	0.11	<0.10	0.10	0.34	0.20	0.14	<0.10	0.10	C005258
Total Cobalt (Co)	ug/L	0.0185	0.0225	0.0050	1.91	0.010	0.0072	<0.0050	0.0050	C005258
Total Copper (Cu)	ug/L	8.68	8.82	0.050	1980	0.10	0.108	0.193	0.050	C005258
Total Iron (Fe)	ug/L	17.9	27.3	1.0	975	2.0	3.2	2.4	1.0	C005258
Total Lead (Pb)	ug/L	0.466	0.604	0.0050	18.7	0.010	<0.0050	<0.0050	0.0050	C005258
Total Lithium (Li)	ug/L	<0.50	<0.50	0.50	3.7	1.0	0.73	0.72	0.50	C005258
Total Manganese (Mn)	ug/L	1.44	2.24	0.050	112	0.10	0.382	0.077	0.050	C005258
Total Molybdenum (Mo)	ug/L	0.133	0.129	0.050	2.14	0.10	3.43	2.23	0.050	C005258
Total Nickel (Ni)	ug/L	0.091	0.091	0.020	3.79	0.040	0.195	0.321	0.020	C005258
Total Phosphorus (P)	ug/L	<2.0	2.5	2.0	5.4	4.0	<2.0	<2.0	2.0	C005258
Total Selenium (Se)	ug/L	0.062	0.068	0.040	0.348	0.080	0.759	0.535	0.040	C005258
Total Silicon (Si)	ug/L	1290	1250	50	3880	100	1880	1990	50	C005258
Total Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	0.029	0.010	<0.0050	<0.0050	0.0050	C005258
Total Strontium (Sr)	ug/L	35.6	33.6	0.050	163	0.10	108	93.6	0.050	C005258
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	0.0020	0.102	0.0040	<0.0020	<0.0020	0.0020	C005258
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	<0.40	0.40	<0.20	<0.20	0.20	C005258
Total Titanium (Ti)	ug/L	<0.50	<0.50	0.50	<1.0	1.0	<0.50	<0.50	0.50	C005258
Total Uranium (U)	ug/L	0.0490	0.0485	0.0020	1.24	0.0040	0.796	0.335	0.0020	C005258
Total Vanadium (V)	ug/L	<0.20	<0.20	0.20	<0.40	0.40	<0.20	<0.20	0.20	C005258

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ735	DNZ736		DNZ740		DNZ741	DNZ742		
Sampling Date		2025/06/20 14:45	2025/06/20 16:45		2025/06/20 11:30		2025/06/19 16:30	2025/06/19 17:15		
COC Number		08553598	08553598		08553598		08553598	08553598		
	UNITS	**CC-01**	**CC-02**	**RDL**	**W11**	**RDL**	**W44**	**W45**	**RDL**	**QC Batch**
Total Zinc (Zn)	ug/L	45.7	40.5	0.10	10200	0.20	0.27	0.43	0.10	C005258
Total Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	<0.20	0.20	<0.10	<0.10	0.10	C005258
Total Calcium (Ca)	mg/L	17.1	16.8	0.050	38.9	0.10	29.9	26.5	0.050	C002769
Total Magnesium (Mg)	mg/L	0.403	0.381	0.050	3.95	0.10	3.31	3.13	0.050	C002769
Total Potassium (K)	mg/L	0.215	0.203	0.050	1.25	0.10	2.06	1.78	0.050	C002769
Total Sodium (Na)	mg/L	0.450	0.417	0.050	2.08	0.10	1.35	1.02	0.050	C002769
Total Sulphur (S)	mg/L	<3.0	<3.0	3.0	38.5	6.0	8.7	7.0	3.0	C002769
RDL = Reportable Detection Limit										

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ744	DNZ745	DNZ746		DNZ749	DNZ752	DNZ754		
Sampling Date		2025/06/23 12:00	2025/06/19 12:30	2025/06/19 13:55		2025/06/20 09:50	2025/06/18 15:00	2025/06/18 17:15		
COC Number		08553598	08553598	08553598		08553598	08553598	08553598		
	UNITS	SW24-2	SW16-8	SW21-5	QC Batch	SW24-5	SW24-8	TUL-12	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	42.6	50.7	39.7	C002447	19.3	63.8	58.1	0.50	C003348
Elements										
Total Mercury (Hg)	ug/L	0.0030	0.0023	<0.0019	C006561	<0.0019	<0.0019	<0.0019	0.0019	C006561
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	69.1	314	334	C005258	25.6	10.8	439	0.50	C005258
Total Antimony (Sb)	ug/L	0.492	0.375	0.231	C005258	0.078	0.123	0.285	0.020	C005258
Total Arsenic (As)	ug/L	1.20	0.914	1.68	C005258	0.458	0.249	1.57	0.020	C005258
Total Barium (Ba)	ug/L	5.00	26.7	15.0	C005258	8.87	47.4	28.9	0.020	C005258
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	C005258	<0.010	0.015	0.011	0.010	C005258
Total Bismuth (Bi)	ug/L	<0.0050	0.0056	<0.0050	C005258	<0.0050	<0.0050	<0.0050	0.0050	C005258
Total Boron (B)	ug/L	<10	<10	<10	C005258	<10	<10	<10	10	C005258
Total Cadmium (Cd)	ug/L	<0.0050	0.118	0.0056	C005258	<0.0050	0.0184	0.0377	0.0050	C005258
Total Chromium (Cr)	ug/L	0.28	0.67	0.67	C005258	<0.10	<0.10	0.87	0.10	C005258
Total Cobalt (Co)	ug/L	0.0450	0.185	0.229	C005258	0.0144	0.0211	0.300	0.0050	C005258
Total Copper (Cu)	ug/L	0.343	5.92	1.30	C005258	0.214	0.464	1.66	0.050	C005258
Total Iron (Fe)	ug/L	66.7	393	428	C005258	19.4	24.9	550	1.0	C005258
Total Lead (Pb)	ug/L	0.0258	0.355	0.0839	C005258	0.0160	0.0135	0.136	0.0050	C005258
Total Lithium (Li)	ug/L	<0.50	<0.50	<0.50	C005258	<0.50	0.67	0.74	0.50	C005258
Total Manganese (Mn)	ug/L	4.69	7.84	16.6	C005258	1.18	0.440	18.6	0.050	C005258
Total Molybdenum (Mo)	ug/L	0.109	0.295	0.444	C005258	0.096	2.45	1.55	0.050	C005258
Total Nickel (Ni)	ug/L	0.159	0.887	0.483	C005258	0.044	0.340	0.991	0.020	C005258
Total Phosphorus (P)	ug/L	3.8	5.1	24.1	C005258	<2.0	3.4	23.0	2.0	C005258
Total Selenium (Se)	ug/L	0.069	0.116	0.111	C005258	0.041	0.419	0.251	0.040	C005258
Total Silicon (Si)	ug/L	875	2440	857	C005258	785	2090	1650	50	C005258
Total Silver (Ag)	ug/L	<0.0050	0.0058	<0.0050	C005258	<0.0050	<0.0050	<0.0050	0.0050	C005258
Total Strontium (Sr)	ug/L	24.9	40.3	53.8	C005258	21.6	84.5	80.5	0.050	C005258
Total Thallium (Tl)	ug/L	<0.0020	0.0071	<0.0020	C005258	<0.0020	0.0026	0.0054	0.0020	C005258
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	C005258	<0.20	<0.20	<0.20	0.20	C005258
Total Titanium (Ti)	ug/L	1.50	13.1	7.43	C005258	<0.50	<0.50	11.4	0.50	C005258
Total Uranium (U)	ug/L	0.0192	0.0908	0.176	C005258	0.0244	0.317	0.392	0.0020	C005258
Total Vanadium (V)	ug/L	<0.20	0.86	0.83	C005258	<0.20	<0.20	1.11	0.20	C005258

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ744	DNZ745	DNZ746		DNZ749	DNZ752	DNZ754		
Sampling Date		2025/06/23 12:00	2025/06/19 12:30	2025/06/19 13:55		2025/06/20 09:50	2025/06/18 15:00	2025/06/18 17:15		
COC Number		08553598	08553598	08553598		08553598	08553598	08553598		
	UNITS	**SW24-2**	**SW16-8**	**SW21-5**	**QC Batch**	**SW24-5**	**SW24-8**	**TUL-12**	**RDL**	**QC Batch**
Total Zinc (Zn)	ug/L	0.37	20.4	1.04	C005258	<0.10	0.78	4.46	0.10	C005258
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	C005258	<0.10	<0.10	0.16	0.10	C005258
Total Calcium (Ca)	mg/L	16.6	18.7	13.7	C002769	7.17	21.2	20.0	0.050	C002769
Total Magnesium (Mg)	mg/L	0.292	0.993	1.31	C002769	0.327	2.66	1.99	0.050	C002769
Total Potassium (K)	mg/L	0.230	0.492	0.217	C002769	0.119	1.77	0.758	0.050	C002769
Total Sodium (Na)	mg/L	0.260	0.551	0.324	C002769	0.291	2.07	0.806	0.050	C002769
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	C002769	<3.0	5.5	5.2	3.0	C002769
RDL = Reportable Detection Limit										

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ757			DNZ760		DNZ761	DNZ762		
Sampling Date		2025/06/20 13:30			2025/06/18 17:00		2025/06/19 16:15	2025/06/21 09:40		
COC Number		08553598			08553598		08553598	08553598		
	UNITS	25-06-DUP02	RDL	QC Batch	25-06-FB01	QC Batch	25-06-FB02	25-06-FB03	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	116	0.50	C003348	<0.50	C003348	<0.50	<0.50	0.50	C003348
Elements										
Total Mercury (Hg)	ug/L	<0.0019	0.0019	C006561	0.0023	C006572	<0.0019	<0.0019	0.0019	C006573
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2280	1.0	C005258	0.77	C005258	<0.50	<0.50	0.50	C005258
Total Antimony (Sb)	ug/L	0.690	0.040	C005258	<0.020	C005258	<0.020	<0.020	0.020	C005258
Total Arsenic (As)	ug/L	6.52	0.040	C005258	<0.020	C005258	<0.020	<0.020	0.020	C005258
Total Barium (Ba)	ug/L	31.0	0.040	C005258	<0.020	C005258	<0.020	0.027	0.020	C005258
Total Beryllium (Be)	ug/L	0.078	0.020	C005258	<0.010	C005258	<0.010	<0.010	0.010	C005258
Total Bismuth (Bi)	ug/L	<0.010	0.010	C005258	<0.0050	C005258	<0.0050	<0.0050	0.0050	C005258
Total Boron (B)	ug/L	<20	20	C005258	<10	C005258	<10	<10	10	C005258
Total Cadmium (Cd)	ug/L	42.0	0.010	C005258	<0.0050	C005258	<0.0050	0.0059	0.0050	C005258
Total Chromium (Cr)	ug/L	0.35	0.20	C005258	<0.10	C005258	<0.10	<0.10	0.10	C005258
Total Cobalt (Co)	ug/L	1.97	0.010	C005258	<0.0050	C005258	<0.0050	<0.0050	0.0050	C005258
Total Copper (Cu)	ug/L	2010	0.10	C005258	<0.050	C005258	<0.050	0.062	0.050	C005258
Total Iron (Fe)	ug/L	1050	2.0	C005258	<1.0	C005258	<1.0	<1.0	1.0	C005258
Total Lead (Pb)	ug/L	19.3	0.010	C005258	<0.0050	C005258	<0.0050	0.0057	0.0050	C005258
Total Lithium (Li)	ug/L	3.8	1.0	C005258	<0.50	C005258	<0.50	<0.50	0.50	C005258
Total Manganese (Mn)	ug/L	114	0.10	C005258	<0.050	C005258	<0.050	<0.050	0.050	C005258
Total Molybdenum (Mo)	ug/L	2.08	0.10	C005258	<0.050	C005258	<0.050	<0.050	0.050	C005258
Total Nickel (Ni)	ug/L	3.65	0.040	C005258	<0.020	C005258	<0.020	0.021	0.020	C005258
Total Phosphorus (P)	ug/L	5.3	4.0	C005258	<2.0	C005258	<2.0	<2.0	2.0	C005258
Total Selenium (Se)	ug/L	0.310	0.080	C005258	<0.040	C005258	<0.040	<0.040	0.040	C005258
Total Silicon (Si)	ug/L	3950	100	C005258	<50	C005258	<50	<50	50	C005258
Total Silver (Ag)	ug/L	0.026	0.010	C005258	<0.0050	C005258	<0.0050	<0.0050	0.0050	C005258
Total Strontium (Sr)	ug/L	164	0.10	C005258	0.061	C005258	<0.050	<0.050	0.050	C005258
Total Thallium (Tl)	ug/L	0.0940	0.0040	C005258	<0.0020	C005258	<0.0020	<0.0020	0.0020	C005258
Total Tin (Sn)	ug/L	<0.40	0.40	C005258	<0.20	C005258	<0.20	<0.20	0.20	C005258
Total Titanium (Ti)	ug/L	<1.0	1.0	C005258	<0.50	C005258	<0.50	<0.50	0.50	C005258
Total Uranium (U)	ug/L	1.31	0.0040	C005258	0.0021	C005258	<0.0020	0.0021	0.0020	C005258
Total Vanadium (V)	ug/L	<0.40	0.40	C005258	<0.20	C005258	<0.20	<0.20	0.20	C005258

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ757			DNZ760		DNZ761	DNZ762		
Sampling Date		2025/06/20 13:30			2025/06/18 17:00		2025/06/19 16:15	2025/06/21 09:40		
COC Number		08553598			08553598		08553598	08553598		
	UNITS	**25-06-DUP02**	**RDL**	**QC Batch**	**25-06-FB01**	**QC Batch**	**25-06-FB02**	**25-06-FB03**	**RDL**	**QC Batch**
Total Zinc (Zn)	ug/L	10200	0.20	C005258	0.11	C005258	0.10	0.12	0.10	C005258
Total Zirconium (Zr)	ug/L	<0.20	0.20	C005258	<0.10	C005258	<0.10	<0.10	0.10	C005258
Total Calcium (Ca)	mg/L	39.7	0.10	C002769	<0.050	C002769	<0.050	<0.050	0.050	C002769
Total Magnesium (Mg)	mg/L	4.08	0.10	C002769	<0.050	C002769	<0.050	<0.050	0.050	C002769
Total Potassium (K)	mg/L	1.25	0.10	C002769	<0.050	C002769	<0.050	<0.050	0.050	C002769
Total Sodium (Na)	mg/L	2.10	0.10	C002769	<0.050	C002769	<0.050	<0.050	0.050	C002769
Total Sulphur (S)	mg/L	39.7	6.0	C002769	<3.0	C002769	<3.0	<3.0	3.0	C002769
RDL = Reportable Detection Limit										

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LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ763		
Sampling Date		2025/06/25		
COC Number		08553598		
	UNITS	25-06-TB01	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	<0.50	0.50	C003348
Elements				
Total Mercury (Hg)	ug/L	<0.0019	0.0019	C006573
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	<0.50	0.50	C005258
Total Antimony (Sb)	ug/L	<0.020	0.020	C005258
Total Arsenic (As)	ug/L	<0.020	0.020	C005258
Total Barium (Ba)	ug/L	<0.020	0.020	C005258
Total Beryllium (Be)	ug/L	<0.010	0.010	C005258
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	C005258
Total Boron (B)	ug/L	<10	10	C005258
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	C005258
Total Chromium (Cr)	ug/L	<0.10	0.10	C005258
Total Cobalt (Co)	ug/L	<0.0050	0.0050	C005258
Total Copper (Cu)	ug/L	<0.050	0.050	C005258
Total Iron (Fe)	ug/L	<1.0	1.0	C005258
Total Lead (Pb)	ug/L	<0.0050	0.0050	C005258
Total Lithium (Li)	ug/L	<0.50	0.50	C005258
Total Manganese (Mn)	ug/L	<0.050	0.050	C005258
Total Molybdenum (Mo)	ug/L	<0.050	0.050	C005258
Total Nickel (Ni)	ug/L	<0.020	0.020	C005258
Total Phosphorus (P)	ug/L	<2.0	2.0	C005258
Total Selenium (Se)	ug/L	<0.040	0.040	C005258
Total Silicon (Si)	ug/L	<50	50	C005258
Total Silver (Ag)	ug/L	<0.0050	0.0050	C005258
Total Strontium (Sr)	ug/L	<0.050	0.050	C005258
Total Thallium (Tl)	ug/L	<0.0020	0.0020	C005258
Total Tin (Sn)	ug/L	<0.20	0.20	C005258
Total Titanium (Ti)	ug/L	<0.50	0.50	C005258
Total Uranium (U)	ug/L	<0.0020	0.0020	C005258
Total Vanadium (V)	ug/L	<0.20	0.20	C005258
RDL = Reportable Detection Limit				

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SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DNZ763		
Sampling Date		2025/06/25		
COC Number		08553598		
	UNITS	**25-06-TB01**	**RDL**	**QC Batch**
Total Zinc (Zn)	ug/L	<0.10	0.10	C005258
Total Zirconium (Zr)	ug/L	<0.10	0.10	C005258
Total Calcium (Ca)	mg/L	<0.050	0.050	C002769
Total Magnesium (Mg)	mg/L	<0.050	0.050	C002769
Total Potassium (K)	mg/L	<0.050	0.050	C002769
Total Sodium (Na)	mg/L	<0.050	0.050	C002769
Total Sulphur (S)	mg/L	<3.0	3.0	C002769
RDL = Reportable Detection Limit				

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ722	DNZ723		DNZ724	DNZ725	DNZ726		
Sampling Date		2025/06/21 17:40	2025/06/22 09:00		2025/06/21 15:00	2025/06/21 17:00	2025/06/23 09:30		
COC Number		08553598	08553598		08553598	08553598	08553598		
	UNITS	W10/TIL-00	SW16-1	QC Batch	TUL-06/SW16-3	SW21-2	TUL-03	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	36.1	48.6	C002447	33.1	26.8	34.3	0.50	C002447
Elements									
Total Mercury (Hg)	ug/L	<0.0019	0.0110	C006504	<0.0019	<0.0019	<0.0019	0.0019	C006572
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	1270	1370	C005331	553	339	897	3.0	C005331
Total Antimony (Sb)	ug/L	0.112	0.392	C005331	0.072	0.031	0.113	0.020	C005331
Total Arsenic (As)	ug/L	1.18	5.30	C005331	0.564	0.183	0.935	0.020	C005331
Total Barium (Ba)	ug/L	40.3	42.7	C005331	35.7	39.6	34.9	0.050	C005331
Total Beryllium (Be)	ug/L	0.033	0.044	C005331	0.010	<0.010	0.027	0.010	C005331
Total Bismuth (Bi)	ug/L	0.045	0.032	C005331	0.019	<0.010	0.034	0.010	C005331
Total Boron (B)	ug/L	<10	<10	C005331	<10	<10	<10	10	C005331
Total Cadmium (Cd)	ug/L	0.0414	0.120	C005331	0.0311	0.0278	0.0354	0.0050	C005331
Total Chromium (Cr)	ug/L	1.93	3.29	C005331	1.18	1.23	1.42	0.10	C005331
Total Cobalt (Co)	ug/L	0.791	1.96	C005331	0.483	0.407	0.623	0.010	C005331
Total Copper (Cu)	ug/L	3.04	5.68	C005331	2.65	2.94	2.64	0.10	C005331
Total Iron (Fe)	ug/L	1520	2580	C005331	755	590	1100	5.0	C005331
Total Lead (Pb)	ug/L	1.03	1.53	C005331	0.512	0.395	0.816	0.020	C005331
Total Lithium (Li)	ug/L	1.27	1.89	C005331	0.76	0.62	1.03	0.50	C005331
Total Manganese (Mn)	ug/L	39.4	75.7	C005331	27.6	29.3	29.8	0.10	C005331
Total Molybdenum (Mo)	ug/L	2.51	2.45	C005331	1.83	0.812	2.46	0.050	C005331
Total Nickel (Ni)	ug/L	3.05	11.3	C005331	2.27	2.64	2.41	0.10	C005331
Total Phosphorus (P)	ug/L	28.0	62.4	C005331	18.0	13.0	20.8	5.0	C005331
Total Selenium (Se)	ug/L	0.153	0.275	C005331	0.172	0.143	0.158	0.040	C005331
Total Silicon (Si)	ug/L	2840	2930	C005331	1670	948	2250	50	C005331
Total Silver (Ag)	ug/L	0.014	0.026	C005331	<0.010	<0.010	0.012	0.010	C005331
Total Strontium (Sr)	ug/L	54.0	81.2	C005331	44.1	29.0	51.4	0.050	C005331
Total Thallium (Tl)	ug/L	0.0190	0.0520	C005331	0.0120	0.0107	0.0149	0.0020	C005331
Total Tin (Sn)	ug/L	<0.20	<0.20	C005331	<0.20	<0.20	<0.20	0.20	C005331
Total Titanium (Ti)	ug/L	69.5	39.9	C005331	32.2	14.7	54.6	2.0	C005331
Total Uranium (U)	ug/L	0.442	0.446	C005331	0.280	0.122	0.404	0.0050	C005331

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ722	DNZ723		DNZ724	DNZ725	DNZ726		
Sampling Date		2025/06/21 17:40	2025/06/22 09:00		2025/06/21 15:00	2025/06/21 17:00	2025/06/23 09:30		
COC Number		08553598	08553598		08553598	08553598	08553598		
	UNITS	**W10/TIL-00**	**SW16-1**	**QC Batch**	**TUL-06/SW16-3**	**SW21-2**	**TUL-03**	**RDL**	**QC Batch**
Total Vanadium (V)	ug/L	3.40	4.18	C005331	1.72	1.28	2.44	0.20	C005331
Total Zinc (Zn)	ug/L	6.8	13.7	C005331	5.4	4.3	8.0	1.0	C005331
Total Zirconium (Zr)	ug/L	0.10	<0.10	C005331	<0.10	<0.10	<0.10	0.10	C005331
Total Calcium (Ca)	mg/L	11.4	15.7	C002769	10.5	8.09	11.0	0.25	C002769
Total Magnesium (Mg)	mg/L	1.87	2.26	C002769	1.65	1.60	1.63	0.25	C002769
Total Potassium (K)	mg/L	1.28	0.95	C002769	1.02	0.71	1.21	0.25	C002769
Total Sodium (Na)	mg/L	0.76	0.62	C002769	0.51	<0.25	0.71	0.25	C002769
Total Sulphur (S)	mg/L	4.4	5.4	C002769	4.0	<3.0	4.6	3.0	C002769
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ727	DNZ728	DNZ729		DNZ730		DNZ731		
Sampling Date		2025/06/21 13:45	2025/06/23 11:00	2025/06/21 08:45		2025/06/21 09:30		2025/06/21 10:30		
COC Number		08553598	08553598	08553598		08553598		08553598		
	UNITS	TUL-05	W27	WTP POND	RDL	SE-2	RDL	5200 LEVEL ADIT	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	36.3	52.4	219	0.50	160	0.50	386	0.50	C002447
Elements										
Total Mercury (Hg)	ug/L	<0.0019	0.0159	<0.0019	0.0019	0.0074	0.0019	0.0021	0.0019	C006572
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	971	1200	28.2	3.0	6640	15	27400	60	C005331
Total Antimony (Sb)	ug/L	0.116	0.499	7.24	0.020	2.36	0.10	2.02	0.40	C005331
Total Arsenic (As)	ug/L	1.01	5.29	0.676	0.020	52.1	0.10	77.1	0.40	C005331
Total Barium (Ba)	ug/L	36.1	34.7	19.5	0.050	28.3	0.25	17.5	1.0	C005331
Total Beryllium (Be)	ug/L	0.020	0.056	<0.010	0.010	0.254	0.050	0.54	0.20	C005331
Total Bismuth (Bi)	ug/L	0.042	0.020	<0.010	0.010	<0.050	0.050	<0.20	0.20	C005331
Total Boron (B)	ug/L	<10	<10	<10	10	<50	50	<200	200	C005331
Total Cadmium (Cd)	ug/L	0.0400	0.121	9.57	0.0050	146	0.025	377	0.10	C005331
Total Chromium (Cr)	ug/L	1.53	3.50	0.14	0.10	1.03	0.50	5.2	2.0	C005331
Total Cobalt (Co)	ug/L	0.660	1.57	0.975	0.010	4.71	0.050	12.6	0.20	C005331
Total Copper (Cu)	ug/L	2.79	4.80	46.4	0.10	7000	0.50	25100	2.0	C005331
Total Iron (Fe)	ug/L	1190	2400	365	5.0	7910	25	43000	100	C005331
Total Lead (Pb)	ug/L	0.877	1.44	0.108	0.020	97.3	0.10	234	0.40	C005331
Total Lithium (Li)	ug/L	1.09	2.08	4.84	0.50	8.3	2.5	19	10	C005331
Total Manganese (Mn)	ug/L	31.9	71.7	67.8	0.10	305	0.50	490	2.0	C005331
Total Molybdenum (Mo)	ug/L	2.62	2.22	0.328	0.050	0.33	0.25	<1.0	1.0	C005331
Total Nickel (Ni)	ug/L	2.56	9.38	4.88	0.10	7.77	0.50	15.9	2.0	C005331
Total Phosphorus (P)	ug/L	25.0	60.6	16.3	5.0	<25	25	<100	100	C005331
Total Selenium (Se)	ug/L	0.150	0.302	0.087	0.040	<0.20	0.20	<0.80	0.80	C005331
Total Silicon (Si)	ug/L	2390	2540	3320	50	6150	250	9020	1000	C005331
Total Silver (Ag)	ug/L	0.012	0.021	<0.010	0.010	0.118	0.050	<0.20	0.20	C005331
Total Strontium (Sr)	ug/L	54.8	98.8	185	0.050	223	0.25	651	1.0	C005331
Total Thallium (Tl)	ug/L	0.0162	0.0534	0.0076	0.0020	0.238	0.010	0.900	0.040	C005331
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	<1.0	1.0	<4.0	4.0	C005331
Total Titanium (Ti)	ug/L	57.3	20.8	<2.0	2.0	<10	10	<40	40	C005331
Total Uranium (U)	ug/L	0.430	0.498	0.0825	0.0050	3.85	0.025	20.2	0.10	C005331

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ727	DNZ728	DNZ729		DNZ730		DNZ731		
Sampling Date		2025/06/21 13:45	2025/06/23 11:00	2025/06/21 08:45		2025/06/21 09:30		2025/06/21 10:30		
COC Number		08553598	08553598	08553598		08553598		08553598		
	UNITS	TUL-05	W27	WTP POND	RDL	SE-2	RDL	5200 LEVEL ADIT	RDL	QC Batch
Total Vanadium (V)	ug/L	2.65	4.12	<0.20	0.20	<1.0	1.0	<4.0	4.0	C005331
Total Zinc (Zn)	ug/L	7.0	14.0	2350	1.0	36600	5.0	93900	20	C005331
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	<0.50	0.50	<2.0	2.0	C005331
Total Calcium (Ca)	mg/L	11.7	17.4	78.7	0.25	54.1	1.3	126	5.0	C002769
Total Magnesium (Mg)	mg/L	1.72	2.19	5.43	0.25	6.0	1.3	17.6	5.0	C002769
Total Potassium (K)	mg/L	1.27	0.55	0.96	0.25	<1.3	1.3	<5.0	5.0	C002769
Total Sodium (Na)	mg/L	0.74	0.45	1.95	0.25	3.8	1.3	<5.0	5.0	C002769
Total Sulphur (S)	mg/L	4.7	5.5	57.8	3.0	93	15	269	60	C002769
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ732		DNZ733			DNZ734		
Sampling Date		2025/06/21 11:00		2025/06/21 11:15			2025/06/20 18:00		
COC Number		08553598		08553598			08553598		
	UNITS	5400 LEVEL ADIT	RDL	5400 CLEAN WATER PIPE	RDL	QC Batch	5900 LEVEL ADIT	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	126	0.50	156	0.50	C002447	132	0.50	C002447
Elements									
Total Mercury (Hg)	ug/L	0.0154	0.0019	0.0051	0.0019	C006572	<0.0019	0.0019	C006572
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	3890	30	1430	6.0	C005331	2800	3.0	C005385
Total Antimony (Sb)	ug/L	4.18	0.20	19.4	0.040	C005331	2.25	0.020	C005385
Total Arsenic (As)	ug/L	135	0.20	64.5	0.040	C005331	11.8	0.020	C005385
Total Barium (Ba)	ug/L	37.3	0.50	24.3	0.10	C005331	44.8	0.050	C005385
Total Beryllium (Be)	ug/L	0.13	0.10	0.050	0.020	C005331	0.151	0.010	C005385
Total Bismuth (Bi)	ug/L	<0.10	0.10	<0.020	0.020	C005331	<0.010	0.010	C005385
Total Boron (B)	ug/L	<100	100	26	20	C005331	<10	10	C005385
Total Cadmium (Cd)	ug/L	164	0.050	47.5	0.010	C005331	7.60	0.0050	C005385
Total Chromium (Cr)	ug/L	<1.0	1.0	0.29	0.20	C005331	0.51	0.10	C005385
Total Cobalt (Co)	ug/L	3.00	0.10	0.853	0.020	C005331	3.92	0.010	C005385
Total Copper (Cu)	ug/L	6510	1.0	1970	0.20	C005331	175	0.10	C005385
Total Iron (Fe)	ug/L	12500	50	3770	10	C005331	5030	5.0	C005385
Total Lead (Pb)	ug/L	112	0.20	39.2	0.040	C005331	14.5	0.020	C005385
Total Lithium (Li)	ug/L	5.7	5.0	9.7	1.0	C005331	2.08	0.50	C005385
Total Manganese (Mn)	ug/L	295	1.0	85.9	0.20	C005331	68.9	0.10	C005385
Total Molybdenum (Mo)	ug/L	<0.50	0.50	3.88	0.10	C005331	0.523	0.050	C005385
Total Nickel (Ni)	ug/L	5.3	1.0	1.56	0.20	C005331	2.71	0.10	C005385
Total Phosphorus (P)	ug/L	<50	50	11	10	C005331	14.8	5.0	C005385
Total Selenium (Se)	ug/L	<0.40	0.40	0.372	0.080	C005331	0.241	0.040	C005385
Total Silicon (Si)	ug/L	3890	500	4500	100	C005331	4520	50	C005385
Total Silver (Ag)	ug/L	0.16	0.10	0.056	0.020	C005331	0.049	0.010	C005385
Total Strontium (Sr)	ug/L	168	0.50	223	0.10	C005331	204	0.050	C005385
Total Thallium (Tl)	ug/L	0.160	0.020	0.0501	0.0040	C005331	0.0154	0.0020	C005385
Total Tin (Sn)	ug/L	<2.0	2.0	<0.40	0.40	C005331	<0.20	0.20	C005385
Total Titanium (Ti)	ug/L	<20	20	<4.0	4.0	C005331	<2.0	2.0	C005385
Total Uranium (U)	ug/L	2.34	0.050	1.88	0.010	C005331	0.828	0.0050	C005385

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ732		DNZ733			DNZ734		
Sampling Date		2025/06/21 11:00		2025/06/21 11:15			2025/06/20 18:00		
COC Number		08553598		08553598			08553598		
	UNITS	**5400 LEVEL ADIT**	**RDL**	**5400 CLEAN WATER PIPE**	**RDL**	**QC Batch**	**5900 LEVEL ADIT**	**RDL**	**QC Batch**
Total Vanadium (V)	ug/L	<2.0	2.0	1.14	0.40	C005331	0.47	0.20	C005385
Total Zinc (Zn)	ug/L	41600	10	11600	2.0	C005331	2390	1.0	C005385
Total Zirconium (Zr)	ug/L	<1.0	1.0	<0.20	0.20	C005331	<0.10	0.10	C005385
Total Calcium (Ca)	mg/L	43.0	2.5	58.6	0.50	C002769	48.2	0.25	C002769
Total Magnesium (Mg)	mg/L	4.4	2.5	2.43	0.50	C002769	2.88	0.25	C002769
Total Potassium (K)	mg/L	<2.5	2.5	0.68	0.50	C002769	0.71	0.25	C002769
Total Sodium (Na)	mg/L	<2.5	2.5	13.1	0.50	C002769	1.33	0.25	C002769
Total Sulphur (S)	mg/L	73	30	43.4	6.0	C002769	28.5	3.0	C002769
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ737	DNZ738	DNZ739		DNZ743		DNZ747		
Sampling Date		2025/06/20 18:45	2025/06/19 18:45	2025/06/19 13:30		2025/06/20 13:45		2025/06/19 10:15		
COC Number		08553598	08553598	08553598		08553598		08553598		
	UNITS	CC-04	SW24-1	SW24-11	QC Batch	W46/SW21-4	QC Batch	SW24-4	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	29.6	31.7	49.2	C002447	48.4	C002447	56.1	0.50	C003348
Elements										
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0157	C006572	0.0106	C006573	0.0033	0.0019	C006561
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	31.6	324	284	C005385	612	C005385	210	3.0	C005331
Total Antimony (Sb)	ug/L	0.155	0.075	0.290	C005385	0.313	C005385	0.369	0.020	C005331
Total Arsenic (As)	ug/L	0.657	0.415	1.78	C005385	3.05	C005385	1.49	0.020	C005331
Total Barium (Ba)	ug/L	5.16	29.0	23.8	C005385	31.4	C005385	28.9	0.050	C005331
Total Beryllium (Be)	ug/L	0.042	0.015	0.018	C005385	0.045	C005385	<0.010	0.010	C005331
Total Bismuth (Bi)	ug/L	<0.010	0.012	<0.010	C005385	0.019	C005385	<0.010	0.010	C005331
Total Boron (B)	ug/L	<10	<10	<10	C005385	<10	C005385	<10	10	C005331
Total Cadmium (Cd)	ug/L	0.0130	0.0200	0.0505	C005385	0.0894	C005385	0.0406	0.0050	C005331
Total Chromium (Cr)	ug/L	0.11	0.89	0.56	C005385	1.55	C005385	0.48	0.10	C005331
Total Cobalt (Co)	ug/L	0.029	0.285	0.561	C005385	1.18	C005385	0.336	0.010	C005331
Total Copper (Cu)	ug/L	0.51	1.50	1.57	C005385	3.29	C005385	1.20	0.10	C005331
Total Iron (Fe)	ug/L	16.4	427	427	C005385	1080	C005385	333	5.0	C005331
Total Lead (Pb)	ug/L	0.043	0.295	0.452	C005385	0.848	C005385	0.314	0.020	C005331
Total Lithium (Li)	ug/L	<0.50	0.54	0.92	C005385	1.26	C005385	0.82	0.50	C005331
Total Manganese (Mn)	ug/L	2.70	14.5	22.0	C005385	43.5	C005385	14.4	0.10	C005331
Total Molybdenum (Mo)	ug/L	0.079	1.77	2.30	C005385	2.45	C005385	3.12	0.050	C005331
Total Nickel (Ni)	ug/L	<0.10	1.47	3.10	C005385	5.62	C005385	1.66	0.10	C005331
Total Phosphorus (P)	ug/L	6.6	10.3	18.2	C005385	36.9	C005385	13.5	5.0	C005331
Total Selenium (Se)	ug/L	0.069	0.169	0.210	C005385	0.249	C005385	0.318	0.040	C005331
Total Silicon (Si)	ug/L	595	1300	1400	C005385	1840	C005385	1320	50	C005331
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	C005385	0.013	C005385	<0.010	0.010	C005331
Total Strontium (Sr)	ug/L	22.2	45.0	90.2	C005385	88.9	C005385	89.3	0.050	C005331
Total Thallium (Tl)	ug/L	0.0027	0.0087	0.0229	C005385	0.0328	C005385	0.0155	0.0020	C005331
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	C005385	<0.20	C005385	<0.20	0.20	C005331
Total Titanium (Ti)	ug/L	<2.0	17.3	9.9	C005385	19.8	C005385	7.0	2.0	C005331
Total Uranium (U)	ug/L	0.0436	0.229	0.378	C005385	0.403	C005385	0.529	0.0050	C005331

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ737	DNZ738	DNZ739		DNZ743		DNZ747		
Sampling Date		2025/06/20 18:45	2025/06/19 18:45	2025/06/19 13:30		2025/06/20 13:45		2025/06/19 10:15		
COC Number		08553598	08553598	08553598		08553598		08553598		
	UNITS	CC-04	SW24-1	SW24-11	QC Batch	W46/SW21-4	QC Batch	SW24-4	RDL	QC Batch
Total Vanadium (V)	ug/L	<0.20	0.98	0.81	C005385	1.85	C005385	0.63	0.20	C005331
Total Zinc (Zn)	ug/L	1.2	3.0	4.5	C005385	8.3	C005385	3.8	1.0	C005331
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	C005385	<0.10	C005385	<0.10	0.10	C005331
Total Calcium (Ca)	mg/L	11.9	10.2	17.0	C002769	16.4	C002769	19.4	0.25	C002769
Total Magnesium (Mg)	mg/L	<0.25	1.52	1.65	C002769	1.80	C002769	1.84	0.25	C002769
Total Potassium (K)	mg/L	<0.25	0.94	0.62	C002769	0.80	C002769	0.99	0.25	C002769
Total Sodium (Na)	mg/L	<0.25	0.49	0.50	C002769	0.55	C002769	0.72	0.25	C002769
Total Sulphur (S)	mg/L	<3.0	4.3	6.8	C002769	6.3	C002769	7.0	3.0	C002769
RDL = Reportable Detection Limit										

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ748	DNZ750	DNZ751	DNZ753	DNZ755	DNZ756		
Sampling Date		2025/06/19 09:30	2025/06/18 13:00	2025/06/18 09:30	2025/06/19 08:40	2025/06/18 11:00	2025/06/18 10:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	TUL-09/W51	SW24-6	SW24-7	SW24-10	W32/TUL-15	25-06-DUP01	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	52.3	40.5	43.6	51.7	41.4	49.6	0.50	C003348
Elements									
Total Mercury (Hg)	ug/L	0.0138	0.0024	0.0042	0.0121	0.0040	0.0021	0.0019	C006561
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	812	570	519	755	445	351	3.0	C005331
Total Antimony (Sb)	ug/L	0.339	0.105	0.271	0.336	0.187	0.267	0.020	C005331
Total Arsenic (As)	ug/L	3.75	0.753	1.35	3.49	1.21	1.40	0.020	C005331
Total Barium (Ba)	ug/L	36.4	33.9	29.3	36.9	26.7	25.0	0.050	C005331
Total Beryllium (Be)	ug/L	0.035	0.016	<0.010	0.032	0.019	<0.010	0.010	C005331
Total Bismuth (Bi)	ug/L	0.028	0.024	0.020	0.028	0.022	<0.010	0.010	C005331
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C005331
Total Cadmium (Cd)	ug/L	0.0933	0.0237	0.0464	0.0967	0.0356	0.0324	0.0050	C005331
Total Chromium (Cr)	ug/L	1.87	0.96	0.94	1.57	0.77	0.77	0.10	C005331
Total Cobalt (Co)	ug/L	1.31	0.408	0.535	1.22	0.446	0.288	0.010	C005331
Total Copper (Cu)	ug/L	3.68	1.74	1.89	3.47	1.65	1.67	0.10	C005331
Total Iron (Fe)	ug/L	1500	703	725	1390	594	476 (1)	5.0	C005331
Total Lead (Pb)	ug/L	1.16	0.511	0.576	1.15	0.513	0.139	0.020	C005331
Total Lithium (Li)	ug/L	1.40	0.86	0.92	1.31	0.89	0.63	0.50	C005331
Total Manganese (Mn)	ug/L	56.0	19.7	25.6	53.8	21.1	18.0	0.10	C005331
Total Molybdenum (Mo)	ug/L	2.42	2.37	2.32	2.49	2.28	1.29	0.050	C005331
Total Nickel (Ni)	ug/L	6.48	1.76	2.55	5.65	2.12	0.79	0.10	C005331
Total Phosphorus (P)	ug/L	43.6	15.5	21.6	46.8	16.0	25.8	5.0	C005331
Total Selenium (Se)	ug/L	0.229	0.219	0.181	0.239	0.195	0.212	0.040	C005331
Total Silicon (Si)	ug/L	2170	1890	1730	2080	1570	1230	50	C005331
Total Silver (Ag)	ug/L	0.019	<0.010	<0.010	0.018	<0.010	<0.010	0.010	C005331
Total Strontium (Sr)	ug/L	88.4	57.5	68.7	86.7	67.3	69.1	0.050	C005331
Total Thallium (Tl)	ug/L	0.0373	0.0097	0.0195	0.0348	0.0145	0.0044	0.0020	C005331
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C005331
Total Titanium (Ti)	ug/L	30.0	33.5	27.6	29.2	23.2	12.6	2.0	C005331

RDL = Reportable Detection Limit
(1) Matrix Spike outside acceptance criteria due to sample matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ748	DNZ750	DNZ751	DNZ753	DNZ755	DNZ756		
Sampling Date		2025/06/19 09:30	2025/06/18 13:00	2025/06/18 09:30	2025/06/19 08:40	2025/06/18 11:00	2025/06/18 10:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	TUL-09/W51	SW24-6	SW24-7	SW24-10	W32/TUL-15	25-06-DUP01	RDL	QC Batch
Total Uranium (U)	ug/L	0.493	0.412	0.436	0.503	0.407	0.345 (1)	0.0050	C005331
Total Vanadium (V)	ug/L	2.51	1.64	1.44	2.24	1.27	0.91	0.20	C005331
Total Zinc (Zn)	ug/L	9.8	4.0	6.2	9.1	4.1	5.0	1.0	C005331
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C005331
Total Calcium (Ca)	mg/L	17.6	13.3	14.6	17.4	13.8	17.1	0.25	C002769
Total Magnesium (Mg)	mg/L	2.04	1.76	1.71	2.03	1.67	1.63	0.25	C002769
Total Potassium (K)	mg/L	0.86	1.19	0.94	0.89	0.94	0.64	0.25	C002769
Total Sodium (Na)	mg/L	0.61	0.85	0.65	0.64	0.65	0.66	0.25	C002769
Total Sulphur (S)	mg/L	6.7	4.7	5.5	6.2	5.5	4.2	3.0	C002769

RDL = Reportable Detection Limit
(1) Matrix Spike outside acceptance criteria due to sample matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ758		DNZ759		
Sampling Date		2025/06/21 09:30		2025/06/22 09:05		
COC Number		08553598		08553598		
	UNITS	25-06-DUP03	RDL	25-06-DUP04	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	129	0.50	44.3	0.50	C003348
Elements						
Total Mercury (Hg)	ug/L	0.0076	0.0019	0.0118	0.0019	C006561
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	5690	15	347	3.0	C005385
Total Antimony (Sb)	ug/L	2.15	0.10	0.238	0.020	C005385
Total Arsenic (As)	ug/L	45.3 (1)	0.10	1.58	0.020	C005385
Total Barium (Ba)	ug/L	23.1	0.25	26.3	0.050	C005385
Total Beryllium (Be)	ug/L	0.248	0.050	0.019	0.010	C005385
Total Bismuth (Bi)	ug/L	<0.050	0.050	0.014	0.010	C005385
Total Boron (B)	ug/L	<50	50	<10	10	C005385
Total Cadmium (Cd)	ug/L	128	0.025	0.0507	0.0050	C005385
Total Chromium (Cr)	ug/L	0.82	0.50	0.95	0.10	C005385
Total Cobalt (Co)	ug/L	4.19	0.050	0.570	0.010	C005385
Total Copper (Cu)	ug/L	6030	0.50	1.97	0.10	C005385
Total Iron (Fe)	ug/L	7080	25	531	5.0	C005385
Total Lead (Pb)	ug/L	83.3	0.10	0.578	0.020	C005385
Total Lithium (Li)	ug/L	7.1	2.5	0.91	0.50	C005385
Total Manganese (Mn)	ug/L	249	0.50	23.9	0.10	C005385
Total Molybdenum (Mo)	ug/L	0.27	0.25	2.40	0.050	C005385
Total Nickel (Ni)	ug/L	6.81	0.50	2.99	0.10	C005385
Total Phosphorus (P)	ug/L	<25	25	25.6	5.0	C005385
Total Selenium (Se)	ug/L	<0.20	0.20	0.195	0.040	C005385
Total Silicon (Si)	ug/L	5160	250	1420	50	C005385
Total Silver (Ag)	ug/L	0.093	0.050	0.011	0.010	C005385
Total Strontium (Sr)	ug/L	194	0.25	81.4	0.050	C005385
Total Thallium (Tl)	ug/L	0.220	0.010	0.0231	0.0020	C005385
Total Tin (Sn)	ug/L	<1.0	1.0	<0.20	0.20	C005385
Total Titanium (Ti)	ug/L	<10	10	15.3	2.0	C005385

RDL = Reportable Detection Limit
(1) Matrix Spike outside acceptance criteria due to sample matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DNZ758		DNZ759		
Sampling Date		2025/06/21 09:30		2025/06/22 09:05		
COC Number		08553598		08553598		
	UNITS	25-06-DUP03	RDL	25-06-DUP04	RDL	QC Batch
Total Uranium (U)	ug/L	3.08	0.025	0.316	0.0050	C005385
Total Vanadium (V)	ug/L	<1.0	1.0	1.01	0.20	C005385
Total Zinc (Zn)	ug/L	31400	5.0	4.5	1.0	C005385
Total Zirconium (Zr)	ug/L	<0.50	0.50	<0.10	0.10	C005385
Total Calcium (Ca)	mg/L	44.0	1.3	15.2	0.25	C002769
Total Magnesium (Mg)	mg/L	4.6	1.3	1.53	0.25	C002769
Total Potassium (K)	mg/L	<1.3	1.3	0.77	0.25	C002769
Total Sodium (Na)	mg/L	2.9	1.3	0.52	0.25	C002769
Total Sulphur (S)	mg/L	77	15	5.5	3.0	C002769
RDL = Reportable Detection Limit						

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Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR VOC + VPH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ726	DNZ729	DNZ730	DNZ731	DNZ732	DNZ735		
Sampling Date		2025/06/23 09:30	2025/06/21 08:45	2025/06/21 09:30	2025/06/21 10:30	2025/06/21 11:00	2025/06/20 14:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	TUL-03	WTP POND	SE-2	5200 LEVEL ADIT	5400 LEVEL ADIT	CC-01	RDL	QC Batch
Calculated Parameters									
VPH (VH6 to 10 - BTEX)	ug/L	<300	<300	<300	<300	<300	<300	300	C002667
Volatiles									
VH C6-C10	ug/L	<300	<300	<300	<300	<300	<300	300	C006041
1,1,1,2-tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,1,1-trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,1,2,2-tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,1,2Trichloro-1,2,2Trifluoroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
1,1,2-trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,1-dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,1-dichloroethene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,2,3-trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
1,2,4-trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
1,2-dibromoethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C006041
1,2-dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,2-dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,2-dichloropropane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,3,5-trimethylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
1,3-Butadiene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,3-dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
1,3-dichloropropane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
1,4-dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
Benzene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	C006041
Bromobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
Bromodichloromethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
Bromomethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
Carbon tetrachloride	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
Chlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
Dibromochloromethane	ug/L	<1.0	<1.0	<1.0	<1.0 (1)	<1.0	<1.0	1.0	C006041

RDL = Reportable Detection Limit
(1) Matrix Spike recovery below acceptance criteria. Sensitivity is not an issue, As results are non-detect, there is no impact on data quality.

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Bureau Veritas Job #: C557919
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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR VOC + VPH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ726	DNZ729	DNZ730	DNZ731	DNZ732	DNZ735		
Sampling Date		2025/06/23 09:30	2025/06/21 08:45	2025/06/21 09:30	2025/06/21 10:30	2025/06/21 11:00	2025/06/20 14:45		
COC Number		08553598	08553598	08553598	08553598	08553598	08553598		
	UNITS	TUL-03	WTP POND	SE-2	5200 LEVEL ADIT	5400 LEVEL ADIT	CC-01	RDL	QC Batch
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0 (1)	<1.0	<1.0	1.0	C006041
Chloroform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
Chloromethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
cis-1,2-dichloroethene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
cis-1,3-dichloropropene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
Dichloromethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
Ethylbenzene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	C006041
Hexachlorobutadiene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
Isopropylbenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C006041
Methyl-tert-butylether (MTBE)	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	C006041
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
Tetrachloroethene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
Toluene	ug/L	<0.40	<0.40	<0.40	<0.40 (1)	<0.40	<0.40	0.40	C006041
trans-1,2-dichloroethene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
trans-1,3-dichloropropene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	C006041
Trichloroethene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
Trichlorofluoromethane	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	C006041
Vinyl chloride	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006041
m & p-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	C006041
o-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40 (1)	<0.40	<0.40	0.40	C006041
Xylenes (Total)	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	C006041
Surrogate Recovery (%)									
1,4-Difluorobenzene (sur.)	%	102	102	102	102	102	103		C006041
4-Bromofluorobenzene (sur.)	%	81	81	81	82	80	81		C006041
D4-1,2-Dichloroethane (sur.)	%	82	82	83	83	81	81		C006041

RDL = Reportable Detection Limit
(1) Matrix Spike recovery below acceptance criteria. Sensitivity is not an issue, As results are non-detect, there is no impact on data quality.

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CSR VOC + VPH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ758	DNZ762	DNZ763		
Sampling Date		2025/06/21 09:30	2025/06/21 09:40	2025/06/25		
COC Number		08553598	08553598	08553598		
	UNITS	25-06-DUP03	25-06-FB03	25-06-TB01	RDL	QC Batch
Calculated Parameters						
VPH (VH6 to 10 - BTEX)	ug/L	<300	<300	<300	300	C002667
Volatiles						
VH C6-C10	ug/L	<300	<300	<300	300	C006041
1,1,1,2-tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,1,1-trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,1,2,2-tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,1,2Trichloro-1,2,2Trifluoroethane	ug/L	<2.0	<2.0	<2.0	2.0	C006041
1,1,2-trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,1-dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,1-dichloroethene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,2,3-trichlorobenzene	ug/L	<2.0	<2.0	<2.0	2.0	C006041
1,2,4-trichlorobenzene	ug/L	<2.0	<2.0	<2.0	2.0	C006041
1,2-dibromoethane	ug/L	<0.20	<0.20	<0.20	0.20	C006041
1,2-dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,2-dichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,2-dichloropropane	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,3,5-trimethylbenzene	ug/L	<2.0	<2.0	<2.0	2.0	C006041
1,3-Butadiene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,3-dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
1,3-dichloropropane	ug/L	<1.0	<1.0	<1.0	1.0	C006041
1,4-dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
Benzene	ug/L	<0.40	<0.40	<0.40	0.40	C006041
Bromobenzene	ug/L	<2.0	<2.0	<2.0	2.0	C006041
Bromodichloromethane	ug/L	<1.0	<1.0	<1.0	1.0	C006041
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	C006041
Bromomethane	ug/L	<1.0	<1.0	<1.0	1.0	C006041
Carbon tetrachloride	ug/L	<0.50	<0.50	<0.50	0.50	C006041
Chlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
Dibromochloromethane	ug/L	<1.0	<1.0	<1.0	1.0	C006041
Chloroethane	ug/L	<1.0	<1.0	<1.0	1.0	C006041
RDL = Reportable Detection Limit						

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SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR VOC + VPH IN WATER (SURFACE WATER)

Bureau Veritas ID		DNZ758	DNZ762	DNZ763		
Sampling Date		2025/06/21 09:30	2025/06/21 09:40	2025/06/25		
COC Number		08553598	08553598	08553598		
	UNITS	25-06-DUP03	25-06-FB03	25-06-TB01	RDL	QC Batch
Chloroform	ug/L	<1.0	<1.0	<1.0	1.0	C006041
Chloromethane	ug/L	<1.0	<1.0	<1.0	1.0	C006041
cis-1,2-dichloroethene	ug/L	<1.0	<1.0	<1.0	1.0	C006041
cis-1,3-dichloropropene	ug/L	<1.0	<1.0	<1.0	1.0	C006041
Dichlorodifluoromethane	ug/L	<2.0	<2.0	<2.0	2.0	C006041
Dichloromethane	ug/L	<2.0	<2.0	<2.0	2.0	C006041
Ethylbenzene	ug/L	<0.40	<0.40	<0.40	0.40	C006041
Hexachlorobutadiene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
Isopropylbenzene	ug/L	<2.0	<2.0	<2.0	2.0	C006041
Methyl-tert-butylether (MTBE)	ug/L	<4.0	<4.0	<4.0	4.0	C006041
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
Tetrachloroethene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
Toluene	ug/L	<0.40	<0.40	<0.40	0.40	C006041
trans-1,2-dichloroethene	ug/L	<1.0	<1.0	<1.0	1.0	C006041
trans-1,3-dichloropropene	ug/L	<1.0	<1.0	<1.0	1.0	C006041
Trichloroethene	ug/L	<0.50	<0.50	<0.50	0.50	C006041
Trichlorofluoromethane	ug/L	<4.0	<4.0	<4.0	4.0	C006041
Vinyl chloride	ug/L	<0.50	<0.50	<0.50	0.50	C006041
m & p-Xylene	ug/L	<0.40	<0.40	<0.40	0.40	C006041
o-Xylene	ug/L	<0.40	<0.40	<0.40	0.40	C006041
Xylenes (Total)	ug/L	<0.40	<0.40	<0.40	0.40	C006041
Surrogate Recovery (%)						
1,4-Difluorobenzene (sur.)	%	102	102	102		C006041
4-Bromofluorobenzene (sur.)	%	80	80	81		C006041
D4-1,2-Dichloroethane (sur.)	%	80	81	81		C006041
RDL = Reportable Detection Limit						

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GENERAL COMMENTS

Sample DNZ722 [W10/TIL-00] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DNZ723 [SW16-1] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ724 [TUL-06/SW16-3] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ725 [SW21-2] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ726 [TUL-03] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR).

Sample DNZ727 [TUL-05] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ728 [W27] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR).

Sample DNZ729 [WTP POND] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ730 [SE-2] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ731 [5200 LEVEL ADIT] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ732 [5400 LEVEL ADIT] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

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Sample DNZ733 [5400 CLEAN WATER PIPE] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ734 [5900 LEVEL ADIT] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ735 [CC-01] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ736 [CC-02] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ737 [CC-04] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ738 [SW24-1] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ739 [SW24-11] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ740 [W11] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ741 [W44] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ742 [W45] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

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Sample DNZ743 [W46/SW21-4] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ744 [SW24-2] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR).

Sample DNZ745 [SW16-8] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ746 [SW21-5] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ747 [SW24-4] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ748 [TUL-09/W51] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ749 [SW24-5] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ750 [SW24-6] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ751 [SW24-7] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ752 [SW24-8] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time

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for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ753 [SW24-10] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ754 [TUL-12] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ755 [W32/TUL-15] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ756 [25-06-DUP01] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ757 [25-06-DUP02] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ758 [25-06-DUP03] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ759 [25-06-DUP04] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ760 [25-06-FB01] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ761 [25-06-FB02] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DNZ762 [25-06-FB03] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate +

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Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C006041	1,4-Difluorobenzene (sur.)	2025/06/30	99	50 - 140	99	50 - 140	101	%		
C006041	4-Bromofluorobenzene (sur.)	2025/06/30	96	50 - 140	94	50 - 140	82	%		
C006041	D4-1,2-Dichloroethane (sur.)	2025/06/30	87	50 - 140	84	50 - 140	83	%		
C006519	D10-ANTHRACENE (sur.)	2025/07/02	100	50 - 140	94	50 - 140	103	%		
C006519	D8-ACENAPHTHYLENE (sur.)	2025/07/02	96	50 - 140	91	50 - 140	97	%		
C006519	D8-NAPHTHALENE (sur.)	2025/07/02	87	50 - 140	72	50 - 140	83	%		
C006519	TERPHENYL-D14 (sur.)	2025/07/02	101	50 - 140	95	50 - 140	103	%		
C006520	O-TERPHENYL (sur.)	2025/07/02	112	60 - 140	118	60 - 140	116	%		
C003863	Total Suspended Solids	2025/06/30	107	80 - 120	99	80 - 120	<1.0	mg/L	NC	20
C003864	Total Suspended Solids	2025/06/30	100	80 - 120	101	80 - 120	<1.0	mg/L	7.9	20
C003865	Total Suspended Solids	2025/06/30	101	80 - 120	101	80 - 120	<1.0	mg/L	0	20
C003891	Nitrate plus Nitrite (N)	2025/06/27	119	80 - 120	107	80 - 120	<0.020	mg/L	NC	25
C003893	Nitrite (N)	2025/06/27	112	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
C003900	Nitrate plus Nitrite (N)	2025/06/27	118	80 - 120	109	80 - 120	<0.020	mg/L	1.2	25
C003902	Nitrite (N)	2025/06/27	119	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
C003905	Nitrate plus Nitrite (N)	2025/06/27	113	80 - 120	110	80 - 120	<0.020	mg/L	NC	25
C003908	Nitrite (N)	2025/06/27	112	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
C003961	pH	2025/06/27			100	97 - 103				
C003964	Alkalinity (PP as CaCO3)	2025/06/27					<1.0	mg/L	NC	20
C003964	Alkalinity (Total as CaCO3)	2025/06/27			98	80 - 120	<1.0	mg/L	0.60	20
C003964	Bicarbonate (HCO3)	2025/06/27					<1.0	mg/L	0.60	20
C003964	Carbonate (CO3)	2025/06/27					<1.0	mg/L	NC	20
C003964	Hydroxide (OH)	2025/06/27					<1.0	mg/L	NC	20
C003965	Conductivity	2025/06/27			100	90 - 110	<2.0	uS/cm	0.37	10
C003981	pH	2025/06/27			100	97 - 103			0.0089	N/A
C003987	Alkalinity (PP as CaCO3)	2025/06/27					<1.0	mg/L	NC	20
C003987	Alkalinity (Total as CaCO3)	2025/06/27			98	80 - 120	<1.0	mg/L	1.3	20
C003987	Bicarbonate (HCO3)	2025/06/27					<1.0	mg/L		
C003987	Carbonate (CO3)	2025/06/27					<1.0	mg/L		
C003987	Hydroxide (OH)	2025/06/27					<1.0	mg/L		
C003988	Conductivity	2025/06/27			99	90 - 110	<2.0	uS/cm	0.39	10

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C004026	Dissolved Fluoride (F)	2025/06/27	96	80 - 120	101	80 - 120	<0.050	mg/L	NC	20
C004028	Dissolved Fluoride (F)	2025/06/27	101	80 - 120	102	80 - 120	<0.050	mg/L	5.6	20
C004308	Orthophosphate (P)	2025/06/27	NC	80 - 120	86	80 - 120	<0.0030	mg/L	0.39	20
C004362	Dissolved Organic Carbon (C)	2025/06/27	107	80 - 120	101	80 - 120	<0.50	mg/L	3.6	20
C004401	Chloride (Cl)	2025/06/27	103	80 - 120	100	80 - 120	<1.0	mg/L	NC	20
C004401	Sulphate (SO4)	2025/06/27	NC	80 - 120	96	80 - 120	<1.0	mg/L	1.3	20
C004412	Chloride (Cl)	2025/06/27	101	80 - 120	100	80 - 120	<1.0	mg/L	NC	20
C004412	Sulphate (SO4)	2025/06/27	97	80 - 120	94	80 - 120	<1.0	mg/L	NC	20
C004786	Alkalinity (PP as CaCO3)	2025/06/27					<1.0	mg/L	NC	20
C004786	Alkalinity (Total as CaCO3)	2025/06/27			96	80 - 120	<1.0	mg/L	0.12	20
C004786	Bicarbonate (HCO3)	2025/06/27					<1.0	mg/L	0.12	20
C004786	Carbonate (CO3)	2025/06/27					<1.0	mg/L	NC	20
C004786	Hydroxide (OH)	2025/06/27					<1.0	mg/L	NC	20
C004788	Conductivity	2025/06/27			100	90 - 110	<2.0	uS/cm	0.10	10
C004789	pH	2025/06/27			100	97 - 103			0.019	N/A
C004847	Total Suspended Solids	2025/06/30	103	80 - 120	101	80 - 120	<1.0	mg/L	4.9	20
C004929	Dissolved Aluminum (Al)	2025/06/28	100	80 - 120	100	80 - 120	<0.50	ug/L	2.0	20
C004929	Dissolved Antimony (Sb)	2025/06/28	99	80 - 120	98	80 - 120	<0.020	ug/L	5.3	20
C004929	Dissolved Arsenic (As)	2025/06/28	100	80 - 120	100	80 - 120	<0.020	ug/L	1.8	20
C004929	Dissolved Barium (Ba)	2025/06/28	98	80 - 120	98	80 - 120	<0.020	ug/L	0.090	20
C004929	Dissolved Beryllium (Be)	2025/06/28	101	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
C004929	Dissolved Bismuth (Bi)	2025/06/28	96	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
C004929	Dissolved Boron (B)	2025/06/28	103	80 - 120	104	80 - 120	<10	ug/L	NC	20
C004929	Dissolved Cadmium (Cd)	2025/06/28	99	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
C004929	Dissolved Chromium (Cr)	2025/06/28	95	80 - 120	95	80 - 120	<0.10	ug/L	3.0	20
C004929	Dissolved Cobalt (Co)	2025/06/28	94	80 - 120	93	80 - 120	<0.0050	ug/L	5.9	20
C004929	Dissolved Copper (Cu)	2025/06/28	93	80 - 120	92	80 - 120	<0.050	ug/L	3.8	20
C004929	Dissolved Iron (Fe)	2025/06/28	101	80 - 120	100	80 - 120	<1.0	ug/L	1.5	20
C004929	Dissolved Lead (Pb)	2025/06/28	96	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
C004929	Dissolved Lithium (Li)	2025/06/28	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
C004929	Dissolved Manganese (Mn)	2025/06/28	98	80 - 120	98	80 - 120	<0.050	ug/L	1.2	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C004929	Dissolved Molybdenum (Mo)	2025/06/28	100	80 - 120	99	80 - 120	<0.050	ug/L	2.9	20
C004929	Dissolved Nickel (Ni)	2025/06/28	96	80 - 120	97	80 - 120	<0.020	ug/L	7.1	20
C004929	Dissolved Selenium (Se)	2025/06/28	100	80 - 120	98	80 - 120	<0.040	ug/L	0.89	20
C004929	Dissolved Silicon (Si)	2025/06/28	104	80 - 120	104	80 - 120	<50	ug/L	0.28	20
C004929	Dissolved Silver (Ag)	2025/06/28	97	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
C004929	Dissolved Strontium (Sr)	2025/06/28	NC	80 - 120	100	80 - 120	<0.050	ug/L	1.8	20
C004929	Dissolved Thallium (Tl)	2025/06/28	98	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
C004929	Dissolved Tin (Sn)	2025/06/28	99	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
C004929	Dissolved Titanium (Ti)	2025/06/28	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
C004929	Dissolved Uranium (U)	2025/06/28	99	80 - 120	104	80 - 120	<0.0020	ug/L	2.4	20
C004929	Dissolved Vanadium (V)	2025/06/28	100	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
C004929	Dissolved Zinc (Zn)	2025/06/28	100	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
C004929	Dissolved Zirconium (Zr)	2025/06/28	101	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
C004932	Dissolved Aluminum (Al)	2025/06/28	97	80 - 120	100	80 - 120	<0.50	ug/L	2.1	20
C004932	Dissolved Antimony (Sb)	2025/06/28	96	80 - 120	98	80 - 120	<0.020	ug/L	9.5	20
C004932	Dissolved Arsenic (As)	2025/06/28	99	80 - 120	99	80 - 120	<0.020	ug/L	3.8	20
C004932	Dissolved Barium (Ba)	2025/06/28	95	80 - 120	98	80 - 120	<0.020	ug/L	0.43	20
C004932	Dissolved Beryllium (Be)	2025/06/28	101	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
C004932	Dissolved Bismuth (Bi)	2025/06/28	96	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
C004932	Dissolved Boron (B)	2025/06/28	104	80 - 120	105	80 - 120	<10	ug/L	NC	20
C004932	Dissolved Cadmium (Cd)	2025/06/28	99	80 - 120	99	80 - 120	<0.0050	ug/L	9.9	20
C004932	Dissolved Chromium (Cr)	2025/06/28	95	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
C004932	Dissolved Cobalt (Co)	2025/06/28	93	80 - 120	96	80 - 120	<0.0050	ug/L	12	20
C004932	Dissolved Copper (Cu)	2025/06/28	92	80 - 120	95	80 - 120	<0.050	ug/L	7.7	20
C004932	Dissolved Iron (Fe)	2025/06/28	99	80 - 120	100	80 - 120	<1.0	ug/L	6.6	20
C004932	Dissolved Lead (Pb)	2025/06/28	96	80 - 120	96	80 - 120	<0.0050	ug/L	17	20
C004932	Dissolved Lithium (Li)	2025/06/28	105	80 - 120	107	80 - 120	<0.50	ug/L	NC	20
C004932	Dissolved Manganese (Mn)	2025/06/28	97	80 - 120	100	80 - 120	<0.050	ug/L	2.1	20
C004932	Dissolved Molybdenum (Mo)	2025/06/28	99	80 - 120	99	80 - 120	<0.050	ug/L	1.6	20
C004932	Dissolved Nickel (Ni)	2025/06/28	96	80 - 120	99	80 - 120	<0.020	ug/L	4.1	20
C004932	Dissolved Selenium (Se)	2025/06/28	101	80 - 120	100	80 - 120	<0.040	ug/L	1.8	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C004932	Dissolved Silicon (Si)	2025/06/28	101	80 - 120	99	80 - 120	<50	ug/L	1.7	20
C004932	Dissolved Silver (Ag)	2025/06/28	97	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
C004932	Dissolved Strontium (Sr)	2025/06/28	NC	80 - 120	100	80 - 120	<0.050	ug/L	0.68	20
C004932	Dissolved Thallium (Tl)	2025/06/28	97	80 - 120	98	80 - 120	<0.0020	ug/L	2.3	20
C004932	Dissolved Tin (Sn)	2025/06/28	94	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
C004932	Dissolved Titanium (Ti)	2025/06/28	98	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
C004932	Dissolved Uranium (U)	2025/06/28	105	80 - 120	100	80 - 120	<0.0020	ug/L	0.24	20
C004932	Dissolved Vanadium (V)	2025/06/28	99	80 - 120	100	80 - 120	<0.20	ug/L	1.9	20
C004932	Dissolved Zinc (Zn)	2025/06/28	100	80 - 120	106	80 - 120	<0.10	ug/L	6.6	20
C004932	Dissolved Zirconium (Zr)	2025/06/28	101	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
C005258	Total Aluminum (Al)	2025/06/30	101	80 - 120	101	80 - 120	<0.50	ug/L	0.098	20
C005258	Total Antimony (Sb)	2025/06/30	98	80 - 120	97	80 - 120	<0.020	ug/L	0.24	20
C005258	Total Arsenic (As)	2025/06/30	102	80 - 120	100	80 - 120	<0.020	ug/L	5.5	20
C005258	Total Barium (Ba)	2025/06/30	96	80 - 120	98	80 - 120	<0.020	ug/L	1.0	20
C005258	Total Beryllium (Be)	2025/06/30	98	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
C005258	Total Bismuth (Bi)	2025/06/30	98	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
C005258	Total Boron (B)	2025/06/30	110	80 - 120	106	80 - 120	<10	ug/L	NC	20
C005258	Total Cadmium (Cd)	2025/06/30	100	80 - 120	97	80 - 120	<0.0050	ug/L	2.0	20
C005258	Total Chromium (Cr)	2025/06/30	100	80 - 120	99	80 - 120	<0.10	ug/L	6.3	20
C005258	Total Cobalt (Co)	2025/06/30	91	80 - 120	90	80 - 120	<0.0050	ug/L	NC	20
C005258	Total Copper (Cu)	2025/06/30	96	80 - 120	96	80 - 120	<0.050	ug/L	0.090	20
C005258	Total Iron (Fe)	2025/06/30	101	80 - 120	99	80 - 120	<1.0	ug/L	0.97	20
C005258	Total Lead (Pb)	2025/06/30	98	80 - 120	96	80 - 120	<0.0050	ug/L	1.9	20
C005258	Total Lithium (Li)	2025/06/30	98	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
C005258	Total Manganese (Mn)	2025/06/30	99	80 - 120	99	80 - 120	<0.050	ug/L	5.2	20
C005258	Total Molybdenum (Mo)	2025/06/30	101	80 - 120	99	80 - 120	<0.050	ug/L	0.075	20
C005258	Total Nickel (Ni)	2025/06/30	96	80 - 120	96	80 - 120	<0.020	ug/L	9.6	20
C005258	Total Phosphorus (P)	2025/06/30	106	80 - 120	103	80 - 120	<2.0	ug/L	NC	20
C005258	Total Selenium (Se)	2025/06/30	100	80 - 120	98	80 - 120	<0.040	ug/L	12	20
C005258	Total Silicon (Si)	2025/06/30	105	80 - 120	103	80 - 120	<50	ug/L	5.0	20
C005258	Total Silver (Ag)	2025/06/30	99	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C005258	Total Strontium (Sr)	2025/06/30	101	80 - 120	98	80 - 120	<0.050	ug/L	0.65	20
C005258	Total Thallium (Tl)	2025/06/30	98	80 - 120	97	80 - 120	<0.0020	ug/L	4.9	20
C005258	Total Tin (Sn)	2025/06/30	99	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
C005258	Total Titanium (Ti)	2025/06/30	102	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
C005258	Total Uranium (U)	2025/06/30	114	80 - 120	113	80 - 120	<0.0020	ug/L	7.1	20
C005258	Total Vanadium (V)	2025/06/30	101	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
C005258	Total Zinc (Zn)	2025/06/30	100	80 - 120	104	80 - 120	<0.10	ug/L	1.4	20
C005258	Total Zirconium (Zr)	2025/06/30	103	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
C005331	Total Aluminum (Al)	2025/07/01	87	80 - 120	102	80 - 120	<3.0	ug/L	0.055	20
C005331	Total Antimony (Sb)	2025/07/01	104	80 - 120	104	80 - 120	<0.020	ug/L	0.99	20
C005331	Total Arsenic (As)	2025/07/01	106	80 - 120	105	80 - 120	<0.020	ug/L	0.64	20
C005331	Total Barium (Ba)	2025/07/01	103	80 - 120	104	80 - 120	<0.050	ug/L	1.6	20
C005331	Total Beryllium (Be)	2025/07/01	104	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
C005331	Total Bismuth (Bi)	2025/07/01	104	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
C005331	Total Boron (B)	2025/07/01	120	80 - 120	117	80 - 120	<10	ug/L	NC	20
C005331	Total Cadmium (Cd)	2025/07/01	105	80 - 120	106	80 - 120	<0.0050	ug/L	1.7	20
C005331	Total Chromium (Cr)	2025/07/01	105	80 - 120	107	80 - 120	<0.10	ug/L	1.4	20
C005331	Total Cobalt (Co)	2025/07/01	96	80 - 120	97	80 - 120	<0.010	ug/L	2.3	20
C005331	Total Copper (Cu)	2025/07/01	101	80 - 120	104	80 - 120	<0.10	ug/L	1.3	20
C005331	Total Iron (Fe)	2025/07/01	70 (1)	80 - 120	106	80 - 120	<5.0	ug/L	0.26	20
C005331	Total Lead (Pb)	2025/07/01	105	80 - 120	103	80 - 120	<0.020	ug/L	1.1	20
C005331	Total Lithium (Li)	2025/07/01	105	80 - 120	106	80 - 120	<0.50	ug/L	3.7	20
C005331	Total Manganese (Mn)	2025/07/01	94	80 - 120	106	80 - 120	<0.10	ug/L	1.4	20
C005331	Total Molybdenum (Mo)	2025/07/01	108	80 - 120	108	80 - 120	<0.050	ug/L	0.49	20
C005331	Total Nickel (Ni)	2025/07/01	102	80 - 120	105	80 - 120	<0.10	ug/L	0.37	20
C005331	Total Phosphorus (P)	2025/07/01	106	80 - 120	100	80 - 120	<5.0	ug/L	6.1	20
C005331	Total Selenium (Se)	2025/07/01	107	80 - 120	104	80 - 120	<0.040	ug/L	0.46	20
C005331	Total Silicon (Si)	2025/07/01	110	80 - 120	106	80 - 120	<50	ug/L	1.1	20
C005331	Total Silver (Ag)	2025/07/01	104	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
C005331	Total Strontium (Sr)	2025/07/01	NC	80 - 120	106	80 - 120	<0.050	ug/L	0.74	20
C005331	Total Thallium (Tl)	2025/07/01	107	80 - 120	104	80 - 120	<0.0020	ug/L	2.6	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C005331	Total Tin (Sn)	2025/07/01	101	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
C005331	Total Titanium (Ti)	2025/07/01	99	80 - 120	106	80 - 120	<2.0	ug/L	NC	20
C005331	Total Uranium (U)	2025/07/01	123 (1)	80 - 120	118	80 - 120	<0.0050	ug/L	2.2	20
C005331	Total Vanadium (V)	2025/07/01	106	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
C005331	Total Zinc (Zn)	2025/07/01	102	80 - 120	110	80 - 120	<1.0	ug/L	0.45	20
C005331	Total Zirconium (Zr)	2025/07/01	107	80 - 120	105	80 - 120	<0.10	ug/L	NC	20
C005355	Orthophosphate (P)	2025/06/28	115	80 - 120	101	80 - 120	<0.0030	mg/L	NC	20
C005378	Orthophosphate (P)	2025/06/28	111	80 - 120	108	80 - 120	<0.0030	mg/L	NC	20
C005385	Total Aluminum (Al)	2025/06/30	NC	80 - 120	100	80 - 120	<3.0	ug/L		
C005385	Total Antimony (Sb)	2025/06/30	113	80 - 120	104	80 - 120	<0.020	ug/L		
C005385	Total Arsenic (As)	2025/06/30	124 (1)	80 - 120	103	80 - 120	<0.020	ug/L		
C005385	Total Barium (Ba)	2025/06/30	106	80 - 120	102	80 - 120	<0.050	ug/L		
C005385	Total Beryllium (Be)	2025/06/30	104	80 - 120	106	80 - 120	<0.010	ug/L		
C005385	Total Bismuth (Bi)	2025/06/30	99	80 - 120	101	80 - 120	<0.010	ug/L		
C005385	Total Boron (B)	2025/06/30	111	80 - 120	114	80 - 120	<10	ug/L		
C005385	Total Cadmium (Cd)	2025/06/30	NC	80 - 120	104	80 - 120	<0.0050	ug/L		
C005385	Total Chromium (Cr)	2025/06/30	102	80 - 120	102	80 - 120	<0.10	ug/L		
C005385	Total Cobalt (Co)	2025/06/30	97	80 - 120	97	80 - 120	<0.010	ug/L		
C005385	Total Copper (Cu)	2025/06/30	NC	80 - 120	100	80 - 120	<0.10	ug/L		
C005385	Total Iron (Fe)	2025/06/30	NC	80 - 120	103	80 - 120	<5.0	ug/L		
C005385	Total Lead (Pb)	2025/06/30	NC	80 - 120	101	80 - 120	<0.020	ug/L		
C005385	Total Lithium (Li)	2025/06/30	110	80 - 120	104	80 - 120	<0.50	ug/L		
C005385	Total Manganese (Mn)	2025/06/30	NC	80 - 120	102	80 - 120	<0.10	ug/L		
C005385	Total Molybdenum (Mo)	2025/06/30	111	80 - 120	104	80 - 120	<0.050	ug/L		
C005385	Total Nickel (Ni)	2025/06/30	99	80 - 120	101	80 - 120	<0.10	ug/L		
C005385	Total Phosphorus (P)	2025/06/30	102	80 - 120	98	80 - 120	<5.0	ug/L		
C005385	Total Selenium (Se)	2025/06/30	103	80 - 120	101	80 - 120	<0.040	ug/L		
C005385	Total Silicon (Si)	2025/06/30	NC	80 - 120	103	80 - 120	<50	ug/L		
C005385	Total Silver (Ag)	2025/06/30	104	80 - 120	103	80 - 120	<0.010	ug/L		
C005385	Total Strontium (Sr)	2025/06/30	NC	80 - 120	104	80 - 120	<0.050	ug/L		
C005385	Total Thallium (Tl)	2025/06/30	103	80 - 120	103	80 - 120	<0.0020	ug/L		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C005385	Total Tin (Sn)	2025/06/30	104	80 - 120	103	80 - 120	<0.20	ug/L		
C005385	Total Titanium (Ti)	2025/06/30	105	80 - 120	102	80 - 120	<2.0	ug/L		
C005385	Total Uranium (U)	2025/06/30	111	80 - 120	104	80 - 120	<0.0050	ug/L		
C005385	Total Vanadium (V)	2025/06/30	102	80 - 120	102	80 - 120	<0.20	ug/L		
C005385	Total Zinc (Zn)	2025/06/30	NC	80 - 120	107	80 - 120	<1.0	ug/L		
C005385	Total Zirconium (Zr)	2025/06/30	111	80 - 120	104	80 - 120	<0.10	ug/L		
C005477	Orthophosphate (P)	2025/06/28	115	80 - 120	103	80 - 120	<0.0030	mg/L	NC	20
C005485	Orthophosphate (P)	2025/06/28	130 (1)	80 - 120	107	80 - 120	<0.0030	mg/L	NC	20
C005899	Dissolved Organic Carbon (C)	2025/06/30	102	80 - 120	103	80 - 120	<0.50	mg/L	0.68	20
C005950	Dissolved Organic Carbon (C)	2025/06/30	102	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
C005991	Dissolved Organic Carbon (C)	2025/06/30	104	80 - 120	104	80 - 120	<0.50	mg/L	NC	20
C006041	1,1,1,2-tetrachloroethane	2025/07/01	80	70 - 130	79	60 - 130	<0.50	ug/L	NC	30
C006041	1,1,1-trichloroethane	2025/07/01	84	70 - 130	85	60 - 130	<0.50	ug/L	NC	30
C006041	1,1,2,2-tetrachloroethane	2025/07/01	85	70 - 130	82	60 - 130	<0.50	ug/L	NC	30
C006041	1,1,2Trichloro-1,2,2Trifluoroethane	2025/07/01	85	N/A	86	60 - 130	<2.0	ug/L	NC	30
C006041	1,1,2-trichloroethane	2025/07/01	80	70 - 130	79	60 - 130	<0.50	ug/L	NC	30
C006041	1,1-dichloroethane	2025/07/01	88	70 - 130	88	60 - 130	<0.50	ug/L	NC	30
C006041	1,1-dichloroethene	2025/07/01	99	70 - 130	99	60 - 130	<0.50	ug/L	NC	30
C006041	1,2,3-trichlorobenzene	2025/07/01	92	N/A	85	60 - 130	<2.0	ug/L	NC	30
C006041	1,2,4-trichlorobenzene	2025/07/01	92	N/A	86	60 - 130	<2.0	ug/L	NC	30
C006041	1,2-dibromoethane	2025/07/01	84	70 - 130	82	60 - 130	<0.20	ug/L	NC	30
C006041	1,2-dichlorobenzene	2025/07/01	92	70 - 130	89	60 - 130	<0.50	ug/L	NC	30
C006041	1,2-dichloroethane	2025/07/01	89	70 - 130	89	60 - 130	<0.50	ug/L	NC	30
C006041	1,2-dichloropropane	2025/07/01	87	70 - 130	88	60 - 130	<0.50	ug/L	NC	30
C006041	1,3,5-trimethylbenzene	2025/07/01	94	N/A	95	60 - 130	<2.0	ug/L	NC	30
C006041	1,3-Butadiene	2025/07/01	64	N/A	66	50 - 140	<0.50	ug/L	NC	30
C006041	1,3-dichlorobenzene	2025/07/01	95	70 - 130	94	60 - 130	<0.50	ug/L	NC	30
C006041	1,3-dichloropropane	2025/07/01	84	30 - 130	83	60 - 130	<1.0	ug/L	NC	30
C006041	1,4-dichlorobenzene	2025/07/01	84	70 - 130	83	60 - 130	<0.50	ug/L	NC	30
C006041	Benzene	2025/07/01	90	70 - 130	91	60 - 130	<0.40	ug/L	NC	30
C006041	Bromobenzene	2025/07/01	87	N/A	87	60 - 130	<2.0	ug/L	NC	30

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C006041	Bromodichloromethane	2025/07/01	85	70 - 130	85	60 - 130	<1.0	ug/L	NC	30
C006041	Bromoform	2025/07/01	89	70 - 130	87	60 - 130	<1.0	ug/L	NC	30
C006041	Bromomethane	2025/07/01	70	60 - 140	78	50 - 140	<1.0	ug/L	NC	30
C006041	Carbon tetrachloride	2025/07/01	84	70 - 130	85	60 - 130	<0.50	ug/L	NC	30
C006041	Chlorobenzene	2025/07/01	82	70 - 130	82	60 - 130	<0.50	ug/L	NC	30
C006041	Chloroethane	2025/07/01	58 (1)	60 - 140	57	50 - 140	<1.0	ug/L	NC	30
C006041	Chloroform	2025/07/01	86	70 - 130	86	60 - 130	<1.0	ug/L	NC	30
C006041	Chloromethane	2025/07/01	108	60 - 140	110	50 - 140	<1.0	ug/L	NC	30
C006041	cis-1,2-dichloroethene	2025/07/01	91	70 - 130	92	60 - 130	<1.0	ug/L	NC	30
C006041	cis-1,3-dichloropropene	2025/07/01	94	70 - 130	92	50 - 140	<1.0	ug/L	NC	30
C006041	Dibromochloromethane	2025/07/01	69 (1)	70 - 130	69	60 - 130	<1.0	ug/L	NC	30
C006041	Dichlorodifluoromethane	2025/07/01	99	N/A	102	50 - 140	<2.0	ug/L	NC	30
C006041	Dichloromethane	2025/07/01	83	70 - 130	83	60 - 130	<2.0	ug/L	NC	30
C006041	Ethylbenzene	2025/07/01	71	70 - 130	73	60 - 130	<0.40	ug/L	NC	30
C006041	Hexachlorobutadiene	2025/07/01	94	N/A	91	60 - 130	<0.50	ug/L	NC	30
C006041	Isopropylbenzene	2025/07/01	77	N/A	78	60 - 130	<2.0	ug/L	NC	30
C006041	m & p-Xylene	2025/07/01	71	70 - 130	72	60 - 130	<0.40	ug/L	NC	30
C006041	Methyl-tert-butylether (MTBE)	2025/07/01	90	70 - 130	91	60 - 130	<4.0	ug/L	NC	30
C006041	o-Xylene	2025/07/01	68 (1)	70 - 130	69	60 - 130	<0.40	ug/L	NC	30
C006041	Styrene	2025/07/01	73	70 - 130	74	60 - 130	<0.50	ug/L	NC	30
C006041	Tetrachloroethene	2025/07/01	83	70 - 130	84	60 - 130	<0.50	ug/L	NC	30
C006041	Toluene	2025/07/01	64 (1)	70 - 130	65	60 - 130	<0.40	ug/L	NC	30
C006041	trans-1,2-dichloroethene	2025/07/01	93	70 - 130	95	60 - 130	<1.0	ug/L	NC	30
C006041	trans-1,3-dichloropropene	2025/07/01	75	70 - 130	72	50 - 140	<1.0	ug/L	NC	30
C006041	Trichloroethene	2025/07/01	85	70 - 130	83	60 - 130	<0.50	ug/L	NC	30
C006041	Trichlorofluoromethane	2025/07/01	88	60 - 140	89	60 - 130	<4.0	ug/L	NC	30
C006041	VH C6-C10	2025/07/01			82	70 - 130	<300	ug/L	NC	30
C006041	Vinyl chloride	2025/07/01	90	60 - 140	92	50 - 140	<0.50	ug/L	NC	30
C006041	Xylenes (Total)	2025/07/01					<0.40	ug/L	NC	30
C006131	Total Nitrogen (N)	2025/07/04	106	80 - 120	111	80 - 120	<0.020	mg/L	NC	20
C006133	Total Nitrogen (N)	2025/07/03	103	80 - 120	110	80 - 120	<0.020	mg/L	1.0	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C006258	Dissolved Mercury (Hg)	2025/06/30	117	80 - 120	114	80 - 120	<0.0019	ug/L	NC	20
C006286	Dissolved Mercury (Hg)	2025/06/30	90	80 - 120	105	80 - 120	<0.0019	ug/L	NC	20
C006504	Total Mercury (Hg)	2025/06/30	89	80 - 120	88	80 - 120	<0.0019	ug/L	NC	20
C006519	1-Methylnaphthalene	2025/07/02	85	50 - 140	61	50 - 140	<0.050	ug/L	NC	40
C006519	2-Methylnaphthalene	2025/07/02	81	50 - 140	56	50 - 140	<0.10	ug/L	NC	40
C006519	Acenaphthene	2025/07/02	91	50 - 140	70	50 - 140	<0.050	ug/L	NC	40
C006519	Acenaphthylene	2025/07/02	89	50 - 140	73	50 - 140	<0.050	ug/L	NC	40
C006519	Acridine	2025/07/02	97	50 - 140	90	50 - 140	<0.050	ug/L	NC	40
C006519	Anthracene	2025/07/02	94	50 - 140	76	50 - 140	<0.010	ug/L	NC	40
C006519	Benzo(a)anthracene	2025/07/02	89	50 - 140	77	50 - 140	<0.010	ug/L	NC	40
C006519	Benzo(a)pyrene	2025/07/02	89	50 - 140	77	50 - 140	<0.0050	ug/L	NC	40
C006519	Benzo(b&j)fluoranthene	2025/07/02	89	50 - 140	78	50 - 140	<0.030	ug/L	NC	40
C006519	Benzo(g,h,i)perylene	2025/07/02	91	50 - 140	80	50 - 140	<0.050	ug/L	NC	40
C006519	Benzo(k)fluoranthene	2025/07/02	95	50 - 140	82	50 - 140	<0.050	ug/L	NC	40
C006519	Chrysene	2025/07/02	85	50 - 140	75	50 - 140	<0.020	ug/L	NC	40
C006519	Dibenz(a,h)anthracene	2025/07/02	88	50 - 140	77	50 - 140	<0.0030	ug/L	NC	40
C006519	Fluoranthene	2025/07/02	89	50 - 140	77	50 - 140	<0.020	ug/L	NC	40
C006519	Fluorene	2025/07/02	92	50 - 140	74	50 - 140	<0.050	ug/L	NC	40
C006519	Indeno(1,2,3-cd)pyrene	2025/07/02	88	50 - 140	77	50 - 140	<0.050	ug/L	NC	40
C006519	Naphthalene	2025/07/02	83	50 - 140	62	50 - 140	<0.10	ug/L	NC	40
C006519	Phenanthrene	2025/07/02	91	50 - 140	73	50 - 140	<0.050	ug/L	NC	40
C006519	Pyrene	2025/07/02	89	50 - 140	78	50 - 140	<0.020	ug/L	NC	40
C006519	Quinoline	2025/07/02	105	50 - 140	95	50 - 140	<0.020	ug/L	NC	40
C006520	EPH (C10-C19)	2025/07/02	103	60 - 140	102	70 - 130	<0.20	mg/L	NC	30
C006520	EPH (C19-C32)	2025/07/02	117	60 - 140	123	70 - 130	<0.20	mg/L	NC	30
C006554	Dissolved Mercury (Hg)	2025/07/02	93	80 - 120	103	80 - 120	<0.0019	ug/L	3.0	20
C006561	Total Mercury (Hg)	2025/07/02	94	80 - 120	90	80 - 120	<0.0019	ug/L	NC	20
C006572	Total Mercury (Hg)	2025/07/02	104	80 - 120	106	80 - 120	<0.0019	ug/L	NC	20
C006573	Total Mercury (Hg)	2025/07/02	107	80 - 120	106	80 - 120	<0.0019	ug/L	NC	20
C007043	Dissolved Aluminum (Al)	2025/07/02	82	80 - 120	88	80 - 120	<0.50	ug/L	1.6	20
C007043	Dissolved Antimony (Sb)	2025/07/02	92	80 - 120	99	80 - 120	<0.020	ug/L	0.73	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C007043	Dissolved Arsenic (As)	2025/07/02	91	80 - 120	98	80 - 120	<0.020	ug/L	0.68	20
C007043	Dissolved Barium (Ba)	2025/07/02	91	80 - 120	97	80 - 120	<0.020	ug/L	0.39	20
C007043	Dissolved Beryllium (Be)	2025/07/02	84	80 - 120	91	80 - 120	<0.010	ug/L	10	20
C007043	Dissolved Bismuth (Bi)	2025/07/02	90	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
C007043	Dissolved Boron (B)	2025/07/02	80	80 - 120	83	80 - 120	<10	ug/L	NC	20
C007043	Dissolved Cadmium (Cd)	2025/07/02	91	80 - 120	99	80 - 120	<0.0050	ug/L	0.11	20
C007043	Dissolved Chromium (Cr)	2025/07/02	85	80 - 120	94	80 - 120	<0.10	ug/L	NC	20
C007043	Dissolved Cobalt (Co)	2025/07/02	90	80 - 120	100	80 - 120	<0.0050	ug/L	0.73	20
C007043	Dissolved Copper (Cu)	2025/07/02	NC	80 - 120	94	80 - 120	<0.050	ug/L	1.6	20
C007043	Dissolved Iron (Fe)	2025/07/02	96	80 - 120	101	80 - 120	<1.0	ug/L	0.85	20
C007043	Dissolved Lead (Pb)	2025/07/02	92	80 - 120	102	80 - 120	<0.0050	ug/L	0.20	20
C007043	Dissolved Lithium (Li)	2025/07/02	85	80 - 120	91	80 - 120	<0.50	ug/L	11	20
C007043	Dissolved Manganese (Mn)	2025/07/02	NC	80 - 120	93	80 - 120	<0.050	ug/L	0.40	20
C007043	Dissolved Molybdenum (Mo)	2025/07/02	93	80 - 120	100	80 - 120	<0.050	ug/L	0.97	20
C007043	Dissolved Nickel (Ni)	2025/07/02	88	80 - 120	98	80 - 120	<0.020	ug/L	1.6	20
C007043	Dissolved Selenium (Se)	2025/07/02	94	80 - 120	99	80 - 120	<0.040	ug/L	5.8	20
C007043	Dissolved Silicon (Si)	2025/07/02	90	80 - 120	99	80 - 120	<50	ug/L	1.3	20
C007043	Dissolved Silver (Ag)	2025/07/02	91	80 - 120	98	80 - 120	<0.0050	ug/L	5.1	20
C007043	Dissolved Strontium (Sr)	2025/07/02	NC	80 - 120	90	80 - 120	<0.050	ug/L	1.7	20
C007043	Dissolved Thallium (Tl)	2025/07/02	93	80 - 120	100	80 - 120	<0.0020	ug/L	2.0	20
C007043	Dissolved Tin (Sn)	2025/07/02	94	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
C007043	Dissolved Titanium (Ti)	2025/07/02	91	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
C007043	Dissolved Uranium (U)	2025/07/02	105	80 - 120	114	80 - 120	<0.0020	ug/L	0.82	20
C007043	Dissolved Vanadium (V)	2025/07/02	86	80 - 120	95	80 - 120	<0.20	ug/L	NC	20
C007043	Dissolved Zinc (Zn)	2025/07/02	NC	80 - 120	110	80 - 120	<0.10	ug/L	0.22	20
C007043	Dissolved Zirconium (Zr)	2025/07/02	92	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
C007088	Dissolved Fluoride (F)	2025/07/02	95	80 - 120	103	80 - 120	<0.050	mg/L	NC	20
C007103	Total Suspended Solids	2025/07/03	93	80 - 120	103	80 - 120	<1.0	mg/L	NC	20
C007187	Dissolved Phosphorus (P)	2025/07/03	145	N/A	99	80 - 120	<0.0030	mg/L	0.89	20
C007190	Dissolved Phosphorus (P)	2025/07/03	105	N/A	105	80 - 120	<0.0030	mg/L	NC	20
C007193	Dissolved Phosphorus (P)	2025/07/03			101	80 - 120	<0.0030	mg/L		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C007546	Total Ammonia (N)	2025/07/02	109	80 - 120	108	80 - 120	<0.015	mg/L	NC	20
C007558	Total Ammonia (N)	2025/07/02	115	80 - 120	107	80 - 120	<0.015	mg/L	NC	20
C007577	Total Ammonia (N)	2025/07/02	110	80 - 120	107	80 - 120	<0.015	mg/L	2.9	20
C007583	Dissolved Fluoride (F)	2025/07/03	90	80 - 120	97	80 - 120	<0.050	mg/L	5.0	20
C008029	Total Suspended Solids	2025/07/04	97	80 - 120	93	80 - 120	<1.0	mg/L	NC	20
C008037	Chloride (Cl)	2025/07/03	94	80 - 120	103	80 - 120	<1.0	mg/L	0.81	20
C008037	Sulphate (SO4)	2025/07/03	NC	80 - 120	99	80 - 120	<1.0	mg/L	0.031	20
C008622	Total Nitrogen (N)	2025/07/04	107	80 - 120	105	80 - 120	<0.020	mg/L	1.7	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557919
Report Date: 2025/07/04

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF BC
Your P.O. #: WHR413
Sampler Initials: ER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Mauro Oselin, P.Chem., QP, Scientific Specialist

Bureau Veritas Certified by David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

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08553598

CHAIN OF CUSTODY RECORD

ENV COC - 00015v3

MVAN-2025-06-2029

Invoice Information		Report Information (if differs from invoice)		Project Information	
Invoice to (requires report)	☐				
Company :	SLR Consulting Ltd	Company:	SLR Consulting Ltd	Quotation #:	C40429-19
Contact Name:	Irene Tuite	Contact Name:	Irene Tuite	P.O. #/ AFE#:	WHR413
Street Address:		Street Address:		Project #:	234.030071.00002
City: / Prov: / Postal Code:		City: / Prov: / Postal Code:		Site #:	
Phone:		Phone:		Site Location:	Tulsequah Chief
Email:	irene.tuite@slrconsulting.com;	Email:	irene.tuite@slrconsulting.com;	Site Location Province:	BC
Copies:		Copies:	eroy@slrconsulting.com	Sampled By:	ER / BC / DG

2024 Rates

Regulatory Criteria

☐ BC CSR ☐ CCME ☐ Drinking Water
☐ YUKON CSR ☑ BC Water Quality ☐ Other: _____

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Regular Turnaround Time (TAT)
☑ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day
Date Required: YY / MM / DD

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 Routine water package	5 TSS (NFR)	6 Fluoride	7 Nitrate + Nitrite, TKN FP	8 Ammonia	9 DOC FF/FP	10 PO43- / Phosphorus FP	11 Ortho / Diss Phosphorus FF/FP	12 Diss metals (L) ** not preserved or filtered	13 Dissolved mercury FF/FP	14 Total metals (L) ** not preserved or filtered	15 Total mercury FP	16 BTEXS/VPH	17 VOC	18 LEPH/HEPH PAHs	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE
1	W10/TUL-00	25	06	21	17	40	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11	
2	SW16-1	25	06	22	9	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11	
3	TUL-06/SW16-3	25	06	21	15	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11	
4	SW21-2	25	06	21	17	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11	
5	~~SW24-2~~	~~25~~	~~06~~	~~23~~			~~Water - Surface~~				R	R	R	R	R	R	R	R	R	R	R	R						~~11~~	
6	TUL-03	25	06	23	9	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14	
7	TUL-05	25	06	21	13	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11	
8	W27	25	06	23	11	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11	
9	WTP Pond	25	06	21	8	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14	
10	SE-2	25	06	21	9	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14	
11	5200 Level Adit	25	06	21	10	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14	
12	5400 Level Adit	25	06	21	11	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14	

Comments

RECEIVED IN WHITEHORSE BY mDuncan@11:15 2025-06-25
ice 4.5 °C
TEMP:
direct shipped by client Alkan Air
labelled "5200"
If detection of PHC, re-run w SG
labelled "5400"

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present			ACTR			
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special instructions
1	Eliana Ray	25	06	28	11	10	Ali Maria Zamora	2025	06	26	09	26	
2													

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08553606

CHAIN OF CUSTODY RECORD
ENV COC - 00015v3

CONTINUED

[PAGE 1 REFERENCE]

Company:	SLR Consulting Ltd
Contact Name:	Irene Tuite
Project #:	234.030071.00002

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 Routine water package	5 TSS (NFR)	6 Fluoride	7 Nitrate + Nitrite, TKN FP	8 Ammonia	9 DOC FF/FP	10 PO43- / Phosphorus FP	11 Ortho / Diss Phosphorus FF/FP	12 Diss metals (L) ** not preserved	13 Dissolved mercury FF/FP	14 Total metals (L) ** not preserved	15 Total mercury FP	16 BTEXS/VPH	17 VOC	18 LEPH/HEPH PAHs	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Same as above / Comments
13	5400 Clean Water Pipe	25	06	21	11	15	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
14	5900 Level Adit	25	06	20	18	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
15	CC-01	25	06	20	14	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14		
16	CC-02	25	06	20	16	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
17	CC-04	25	06	20	18	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
18	SW24-1	25	06	19	19	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
19	SW24-11	25	06	19	13	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
20	W11	25	06	20	11	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
21	W44	25	06	19	16	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
22	W45	25	06	19	17	15	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
23	W46/SW21-4	25	06	20	13	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
24	~~SW16-8~~ SW24-2	25	06	23	12	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
25	SW16-8	25	06	19	12	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
26	SW21-5	25	06	19	13	55	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
27	SW24-4	25	06	19	10	15	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
28	TUL-09/W51	25	06	19	9	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
29	SW24-5	25	06	20	9	50	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
30	SW24-6	25	06	18	13	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
31	SW24-7	25	06	18	9	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
32	SW24-8	25	06	18	15	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
33	SW24-10	25	06	19	8	40	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
34	TUL-12	25	06	18	17	15	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
35	W32/TUL-15	25	06	18	11	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
36	25-06-DUP01	25	06	18	10	45	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
37	25-06-DUP02	25	06	20	13	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
38	25-06-DUP03	25	06	21	9	30	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14		
39	25-06-DUP04	25	06	22	9	05	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
40	25-06-FB01	25	06	18	17	00	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		

RECEIVED IN WHITEHORSE
BY: MDuncan @ 11:15
2025-06-25
TEMP: Sea 18.1 2.1

C557919
2025/06/25 11:15

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CHAIN OF CUSTODY RECORD
ENV COC - 00015v3

Page 3 of 3 ER

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[PAGE 1 REFERENCE]

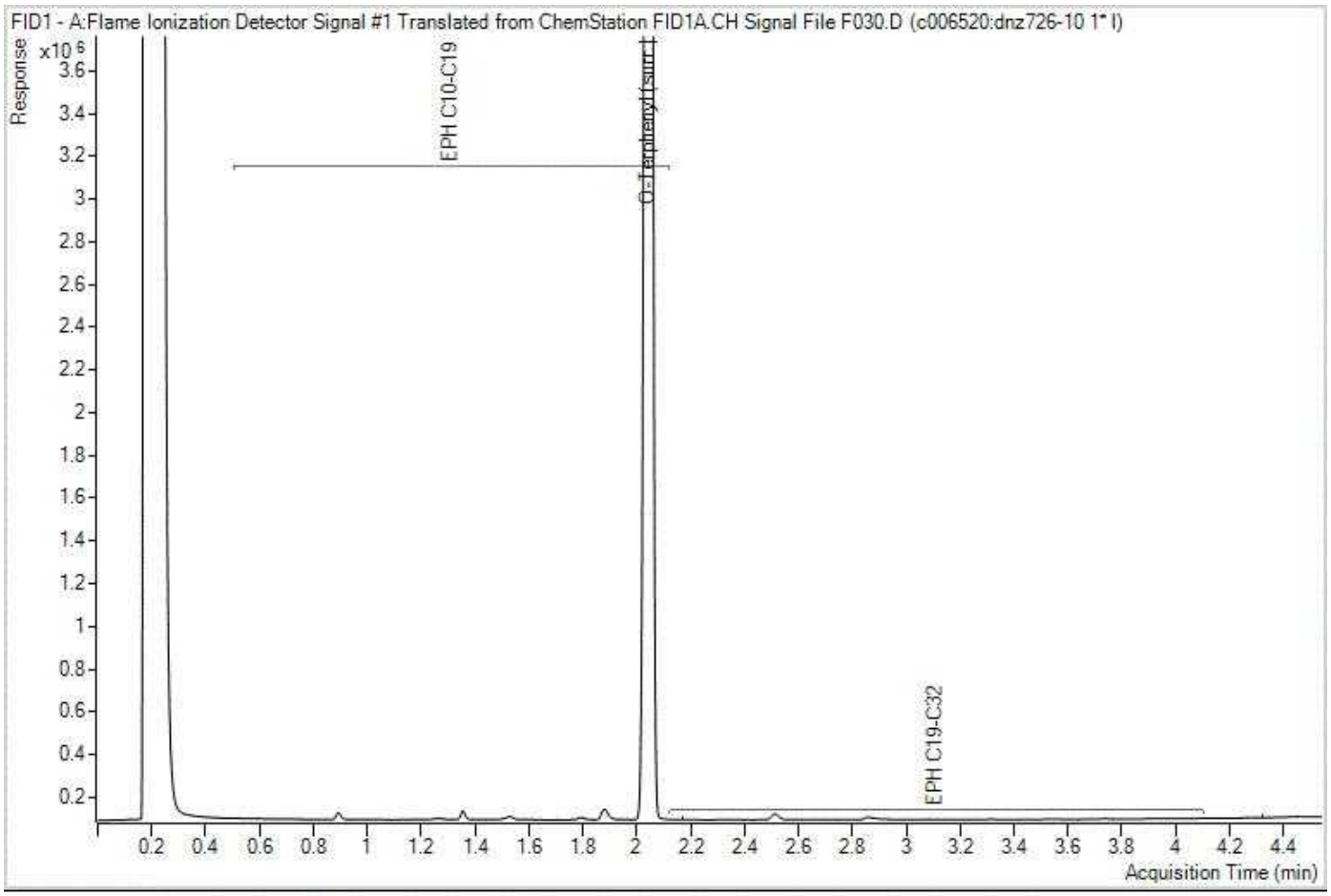
Company:	SLR Consulting Ltd
Contact Name:	Irene Tuite
Project #:	234.030071.00002

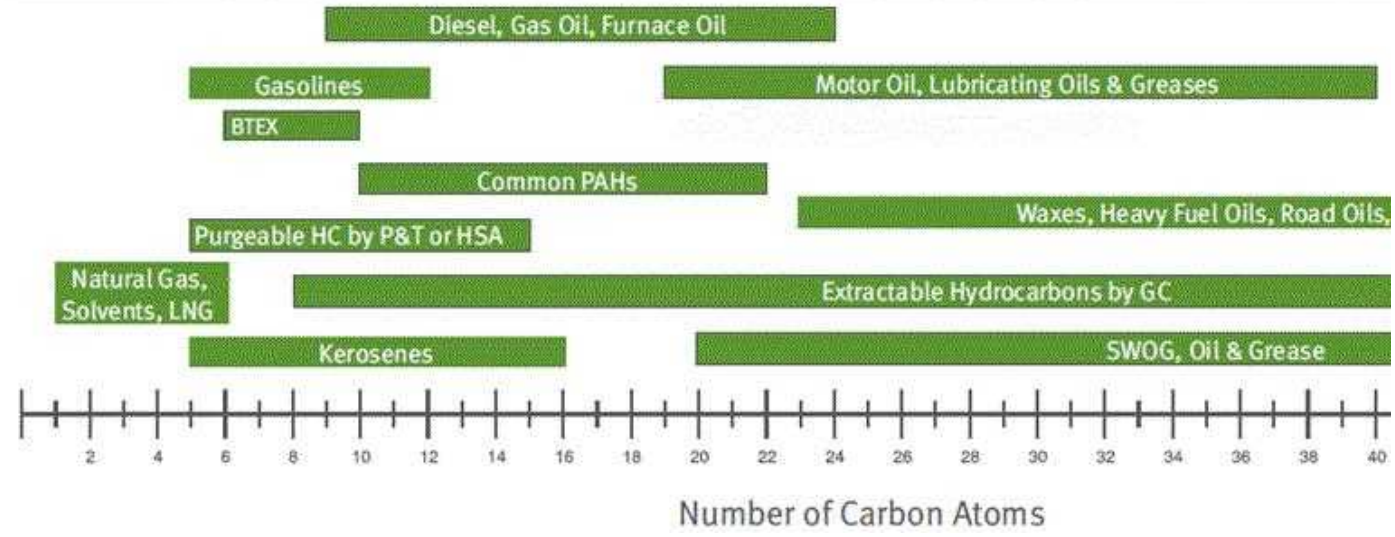
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 Routine water package	5 TSS (NFR)	6 Fluoride	7 Nitrate + Nitrite, TKN FP	8 Ammonia	9 DOC FF/FP	10 PO43- / Phosphorus FP	11 Ortho / Diss Phosphorus FF/FP	12 Diss metals LL ** not preserved	13 Dissolved mercury FF/FP	14 Total metals LL ** not preserved	15 Total mercury FP	16 BTEXS/VPH	17 VOC	18 LEPH/HEPH PAHs	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Same as above / Comments
13	25-06-FB02	25	06	19	16	15	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R						11		
14	25-06-FB03	25	06	21	9	40	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R				14		
15	~~25-06-FB04~~	~~25~~	~~06~~				Water - Surface				~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~							~~11~~		
16	25-06-TB01	25	06	24	-	-	Water - Surface				R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			14		
17																														
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RECEIVED IN WHITEHORSE
BY: MDun 2025-06-25 11:15
TEMP: 5c 1pk 1 1 1

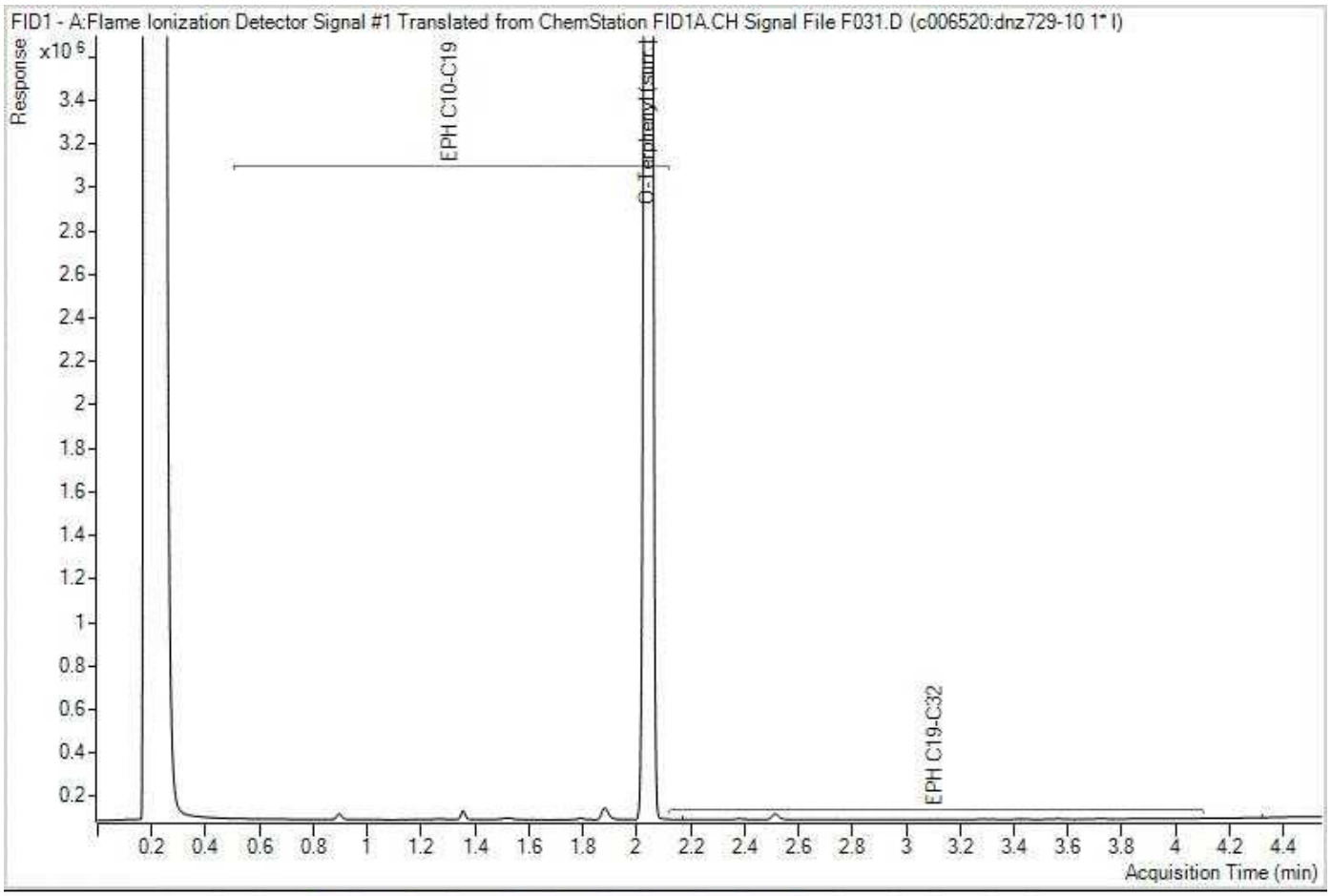
EPH in Water when PAH required Chromatogram

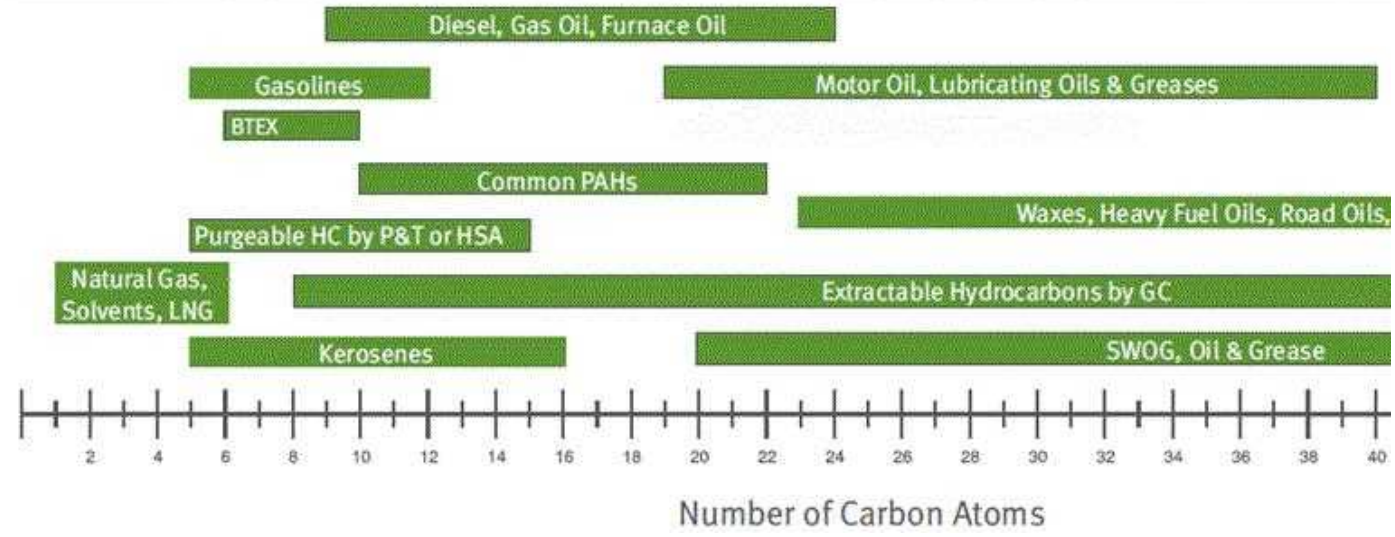




Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

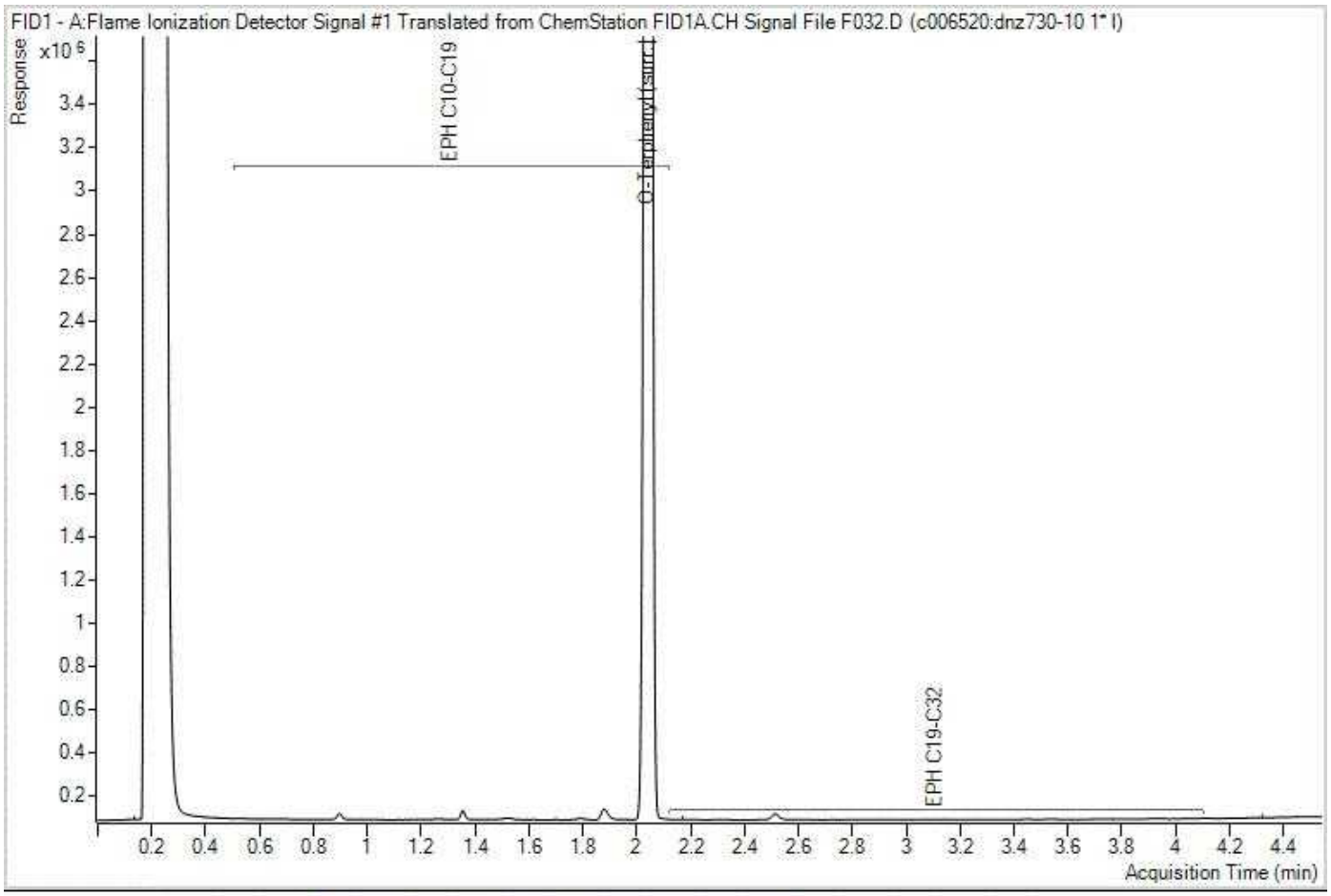
EPH in Water when PAH required Chromatogram

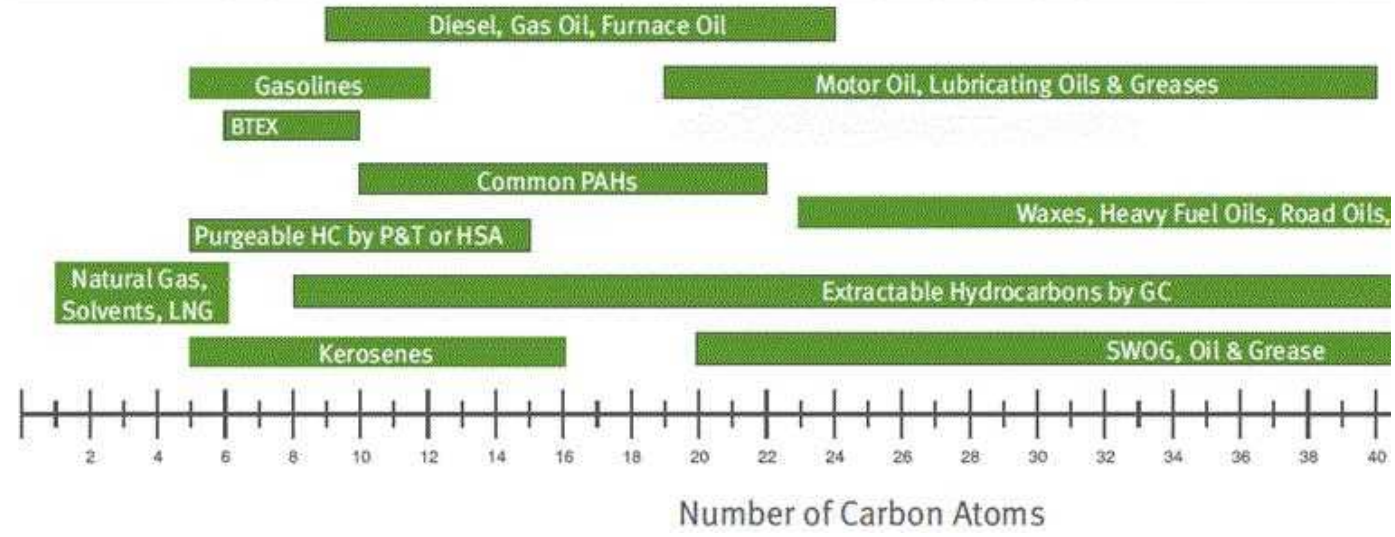




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EPH in Water when PAH required Chromatogram



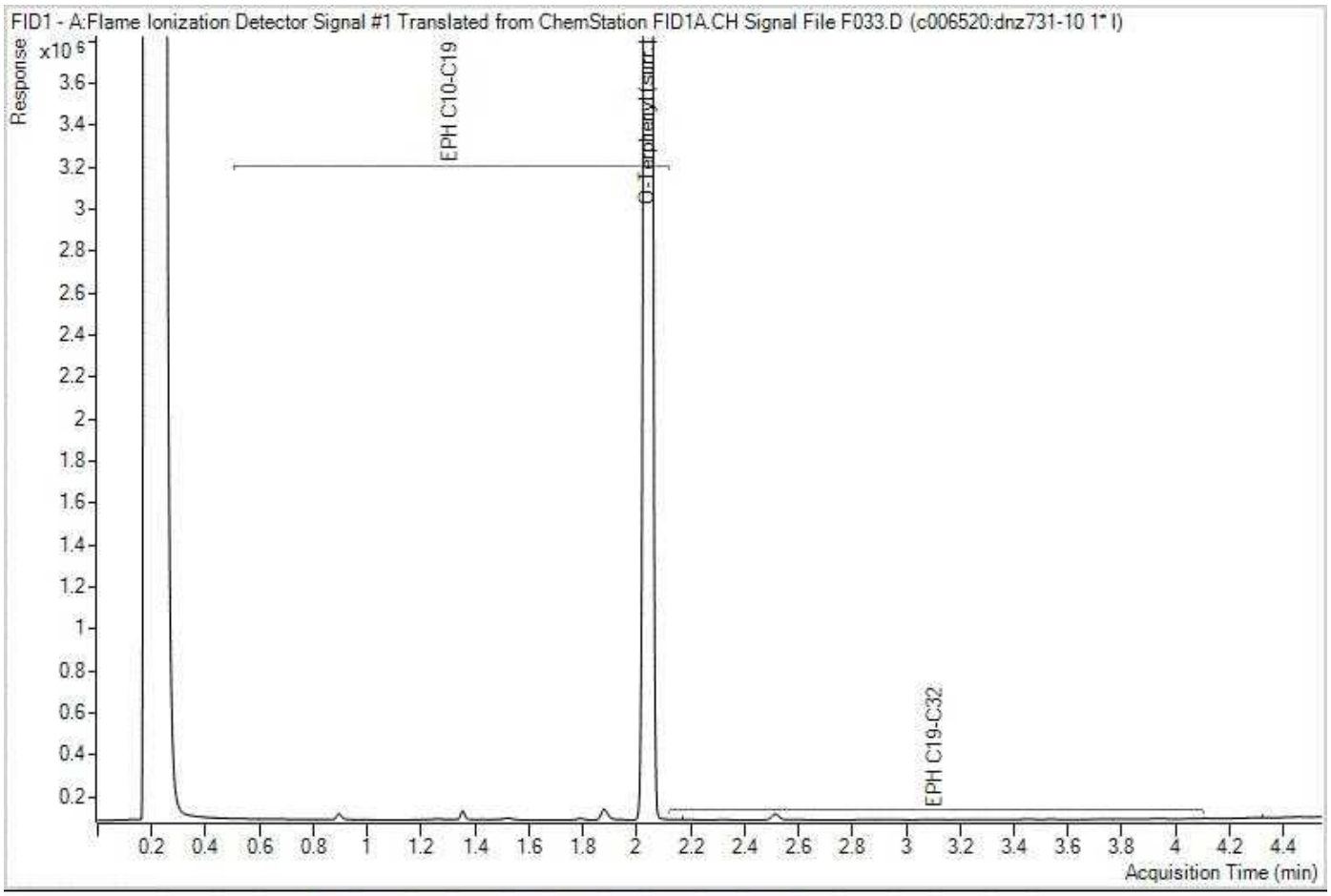


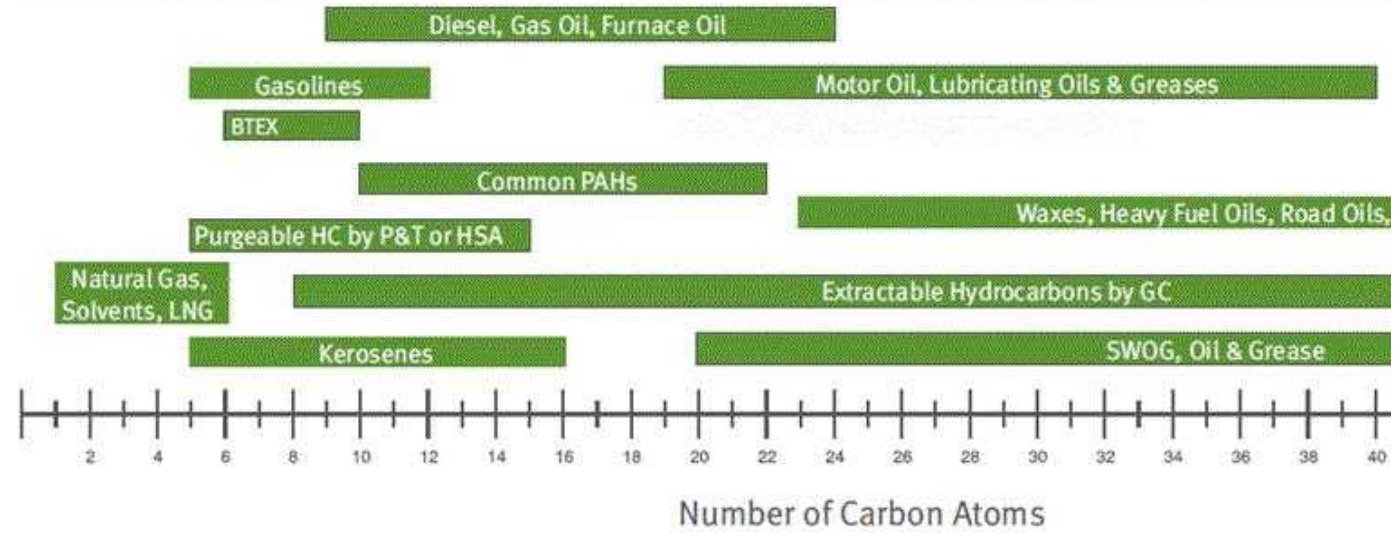
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C557919
Report Date: 2025/07/04
Bureau Veritas Sample: DNZ731

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Reference: TULSEQUAH CHIEF BC
Client ID: 5200 LEVEL ADIT

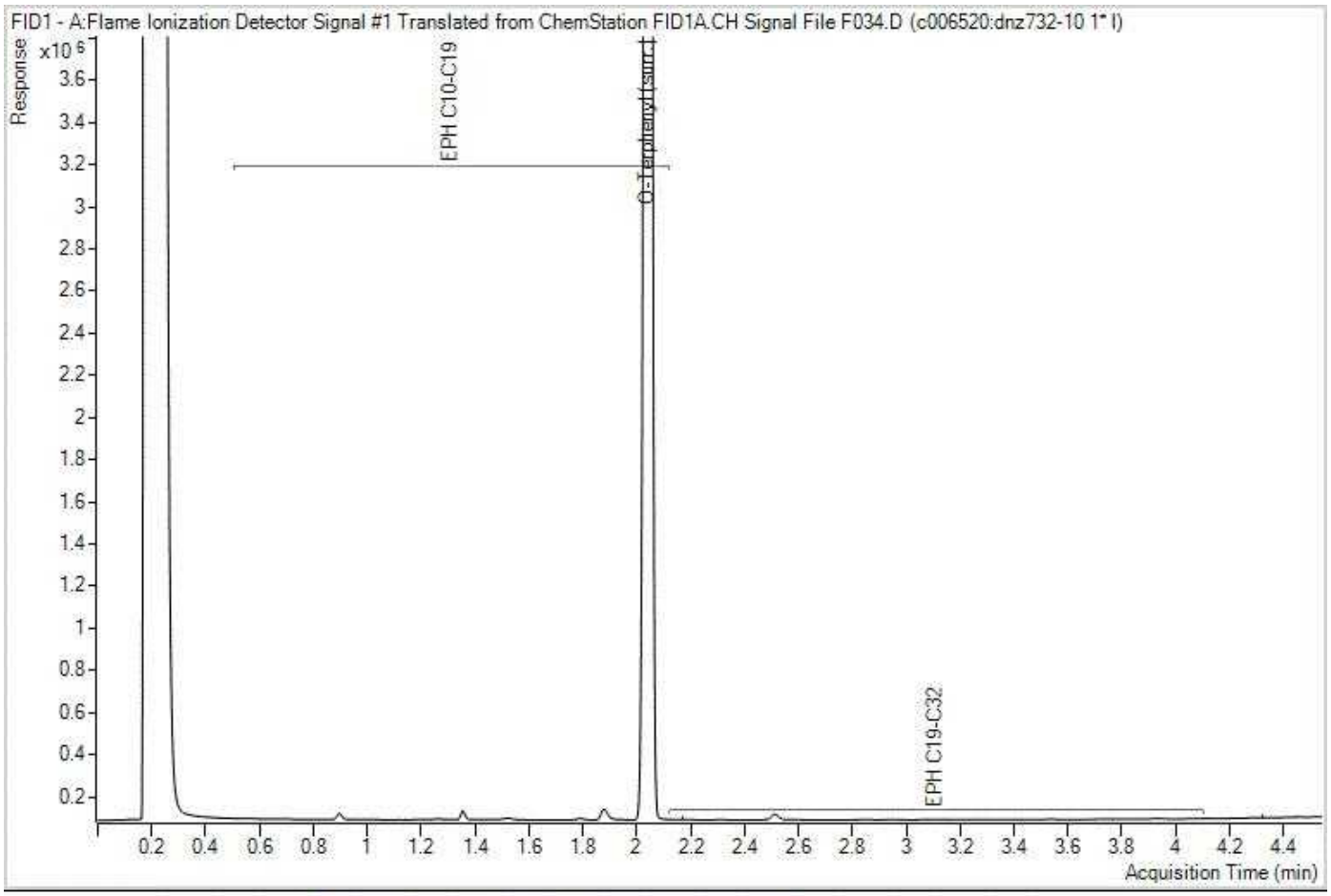
EPH in Water when PAH required Chromatogram

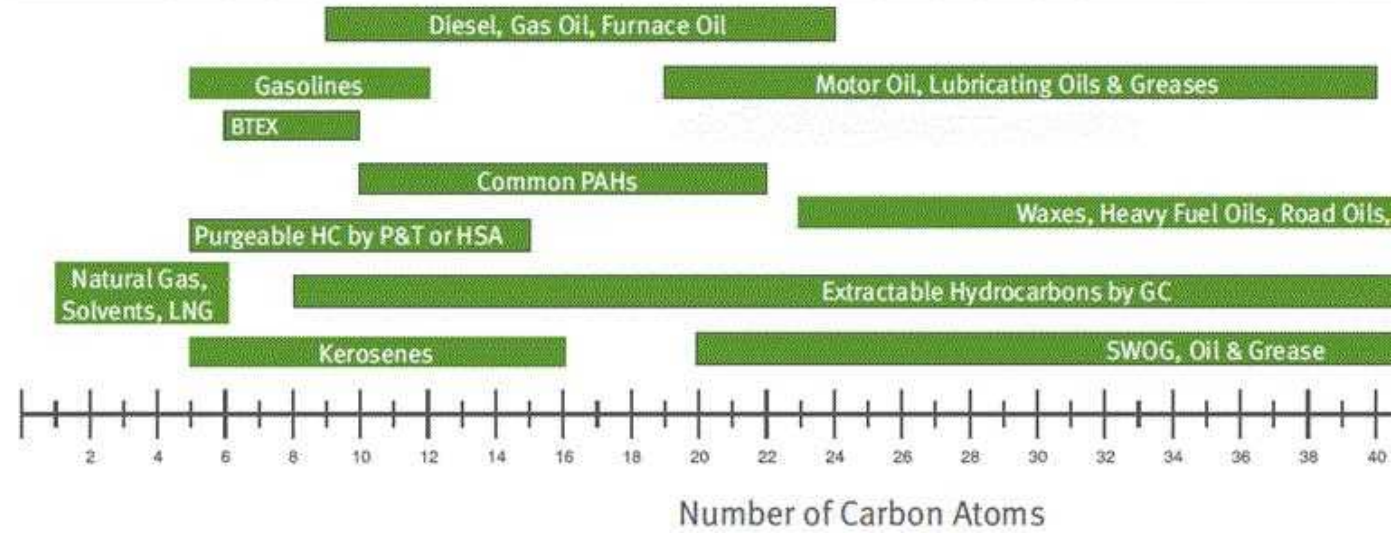




Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

EPH in Water when PAH required Chromatogram



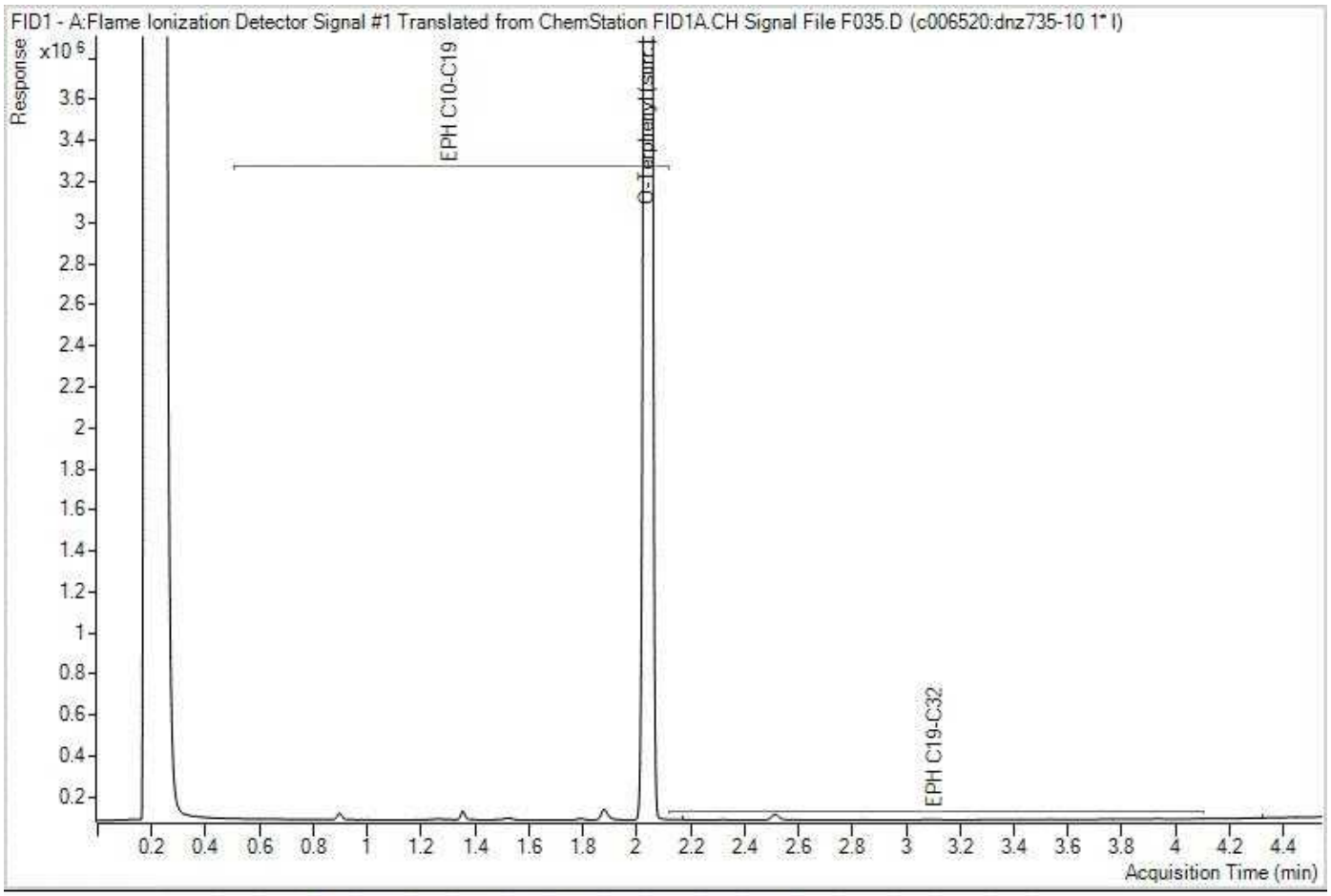


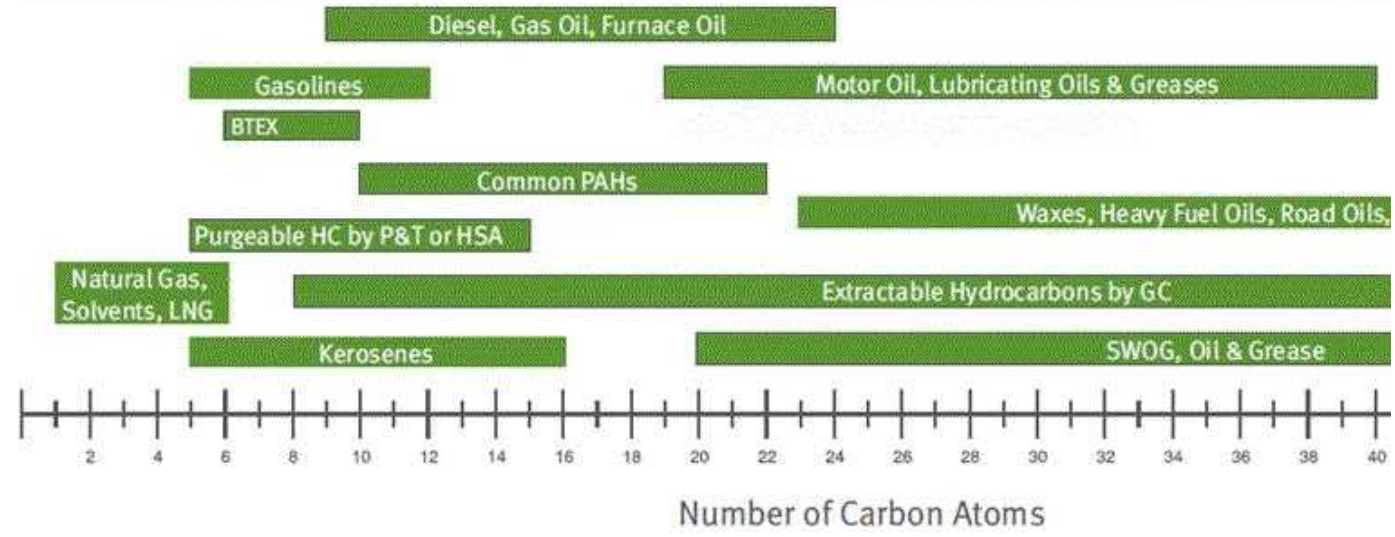
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C557919
Report Date: 2025/07/04
Bureau Veritas Sample: DNZ735

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Reference: TULSEQUAH CHIEF BC
Client ID: CC-01

EPH in Water when PAH required Chromatogram



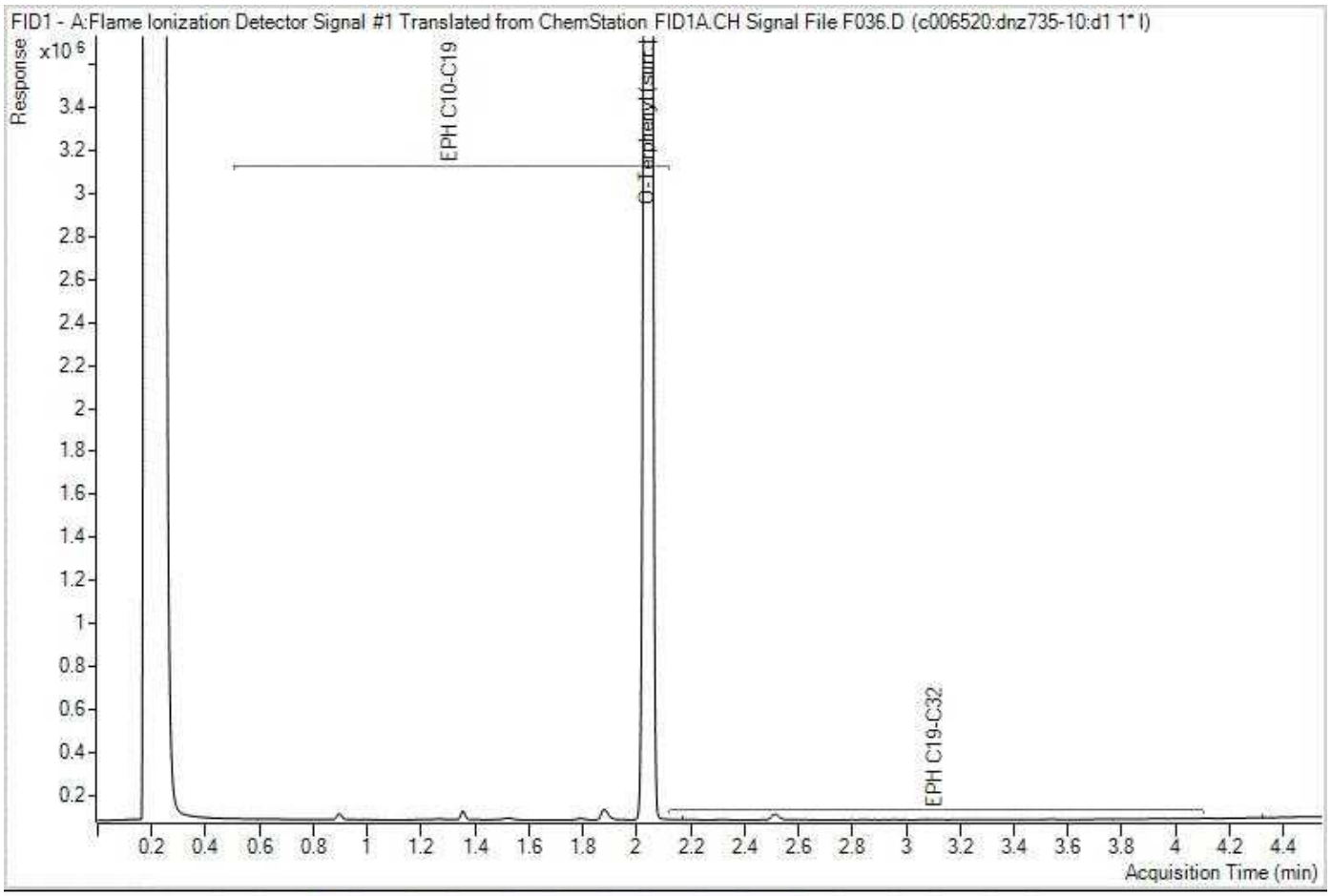


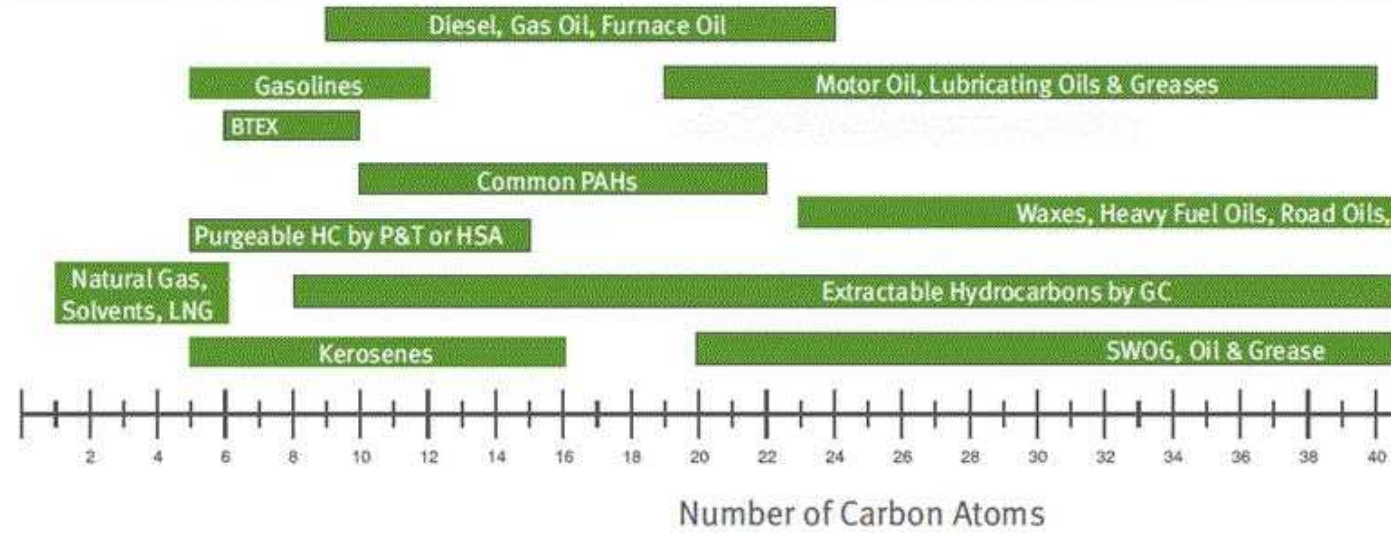
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C557919
Report Date: 2025/07/04
Bureau Veritas Sample: DNZ735 Lab-Dup

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Reference: TULSEQUAH CHIEF BC
Client ID: CC-01

EPH in Water when PAH required Chromatogram



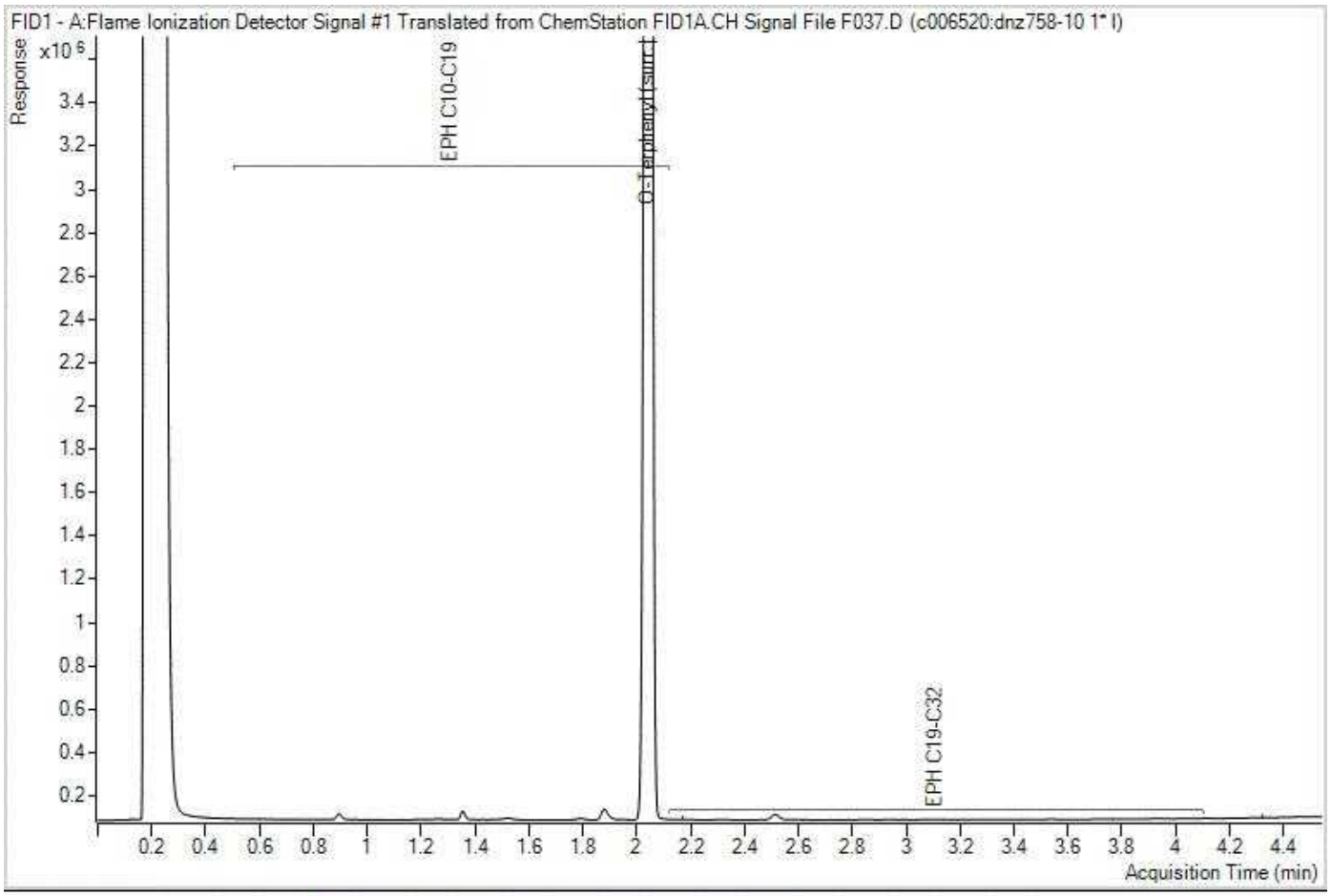


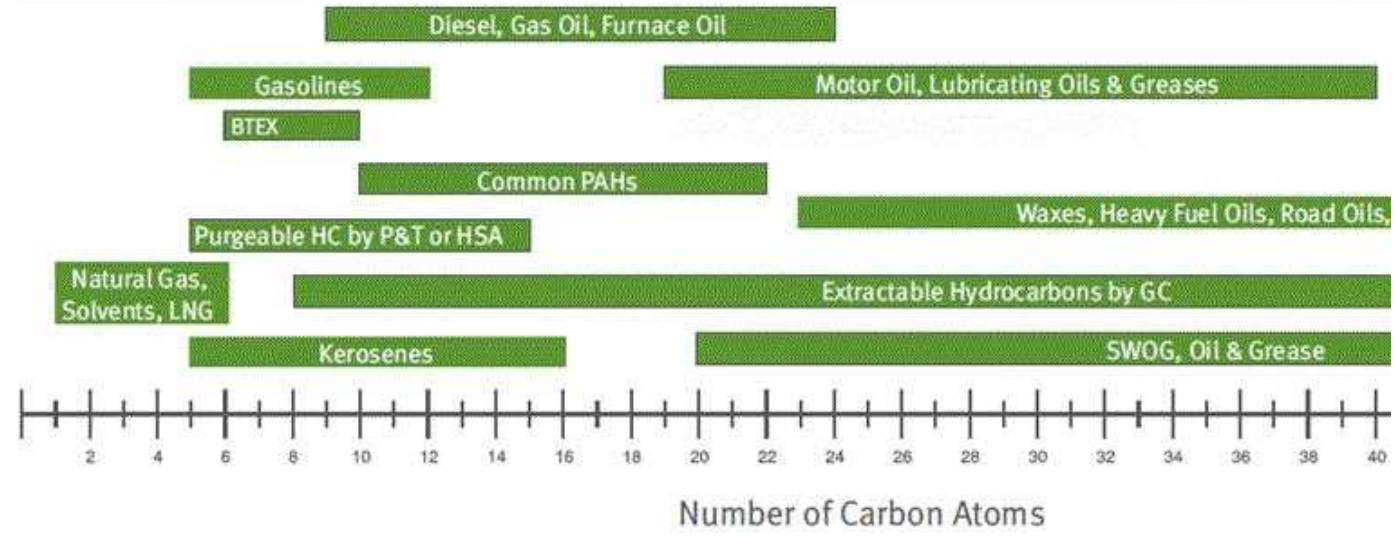
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C557919
Report Date: 2025/07/04
Bureau Veritas Sample: DNZ758

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Reference: TULSEQUAH CHIEF BC
Client ID: 25-06-DUP03

EPH in Water when PAH required Chromatogram



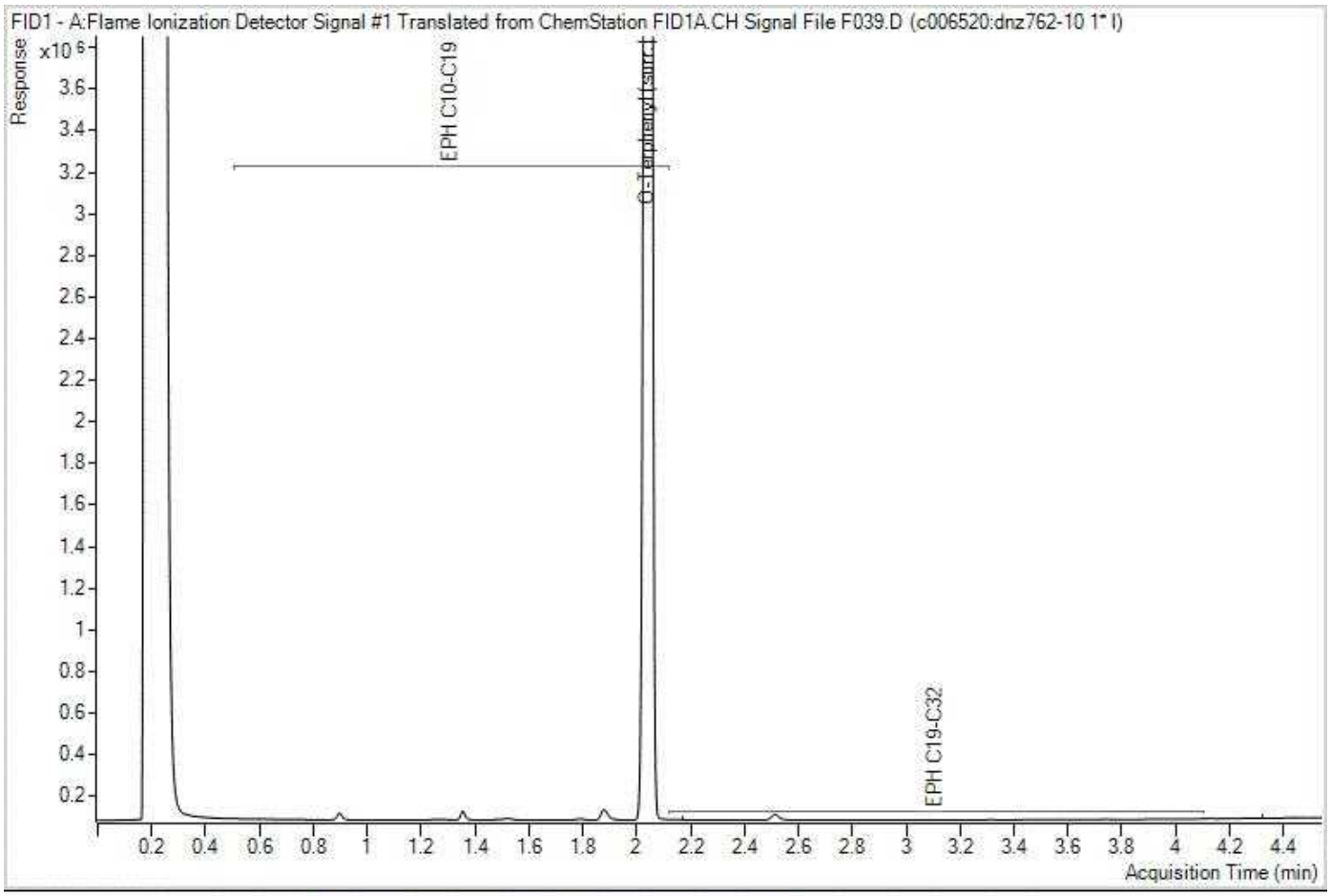


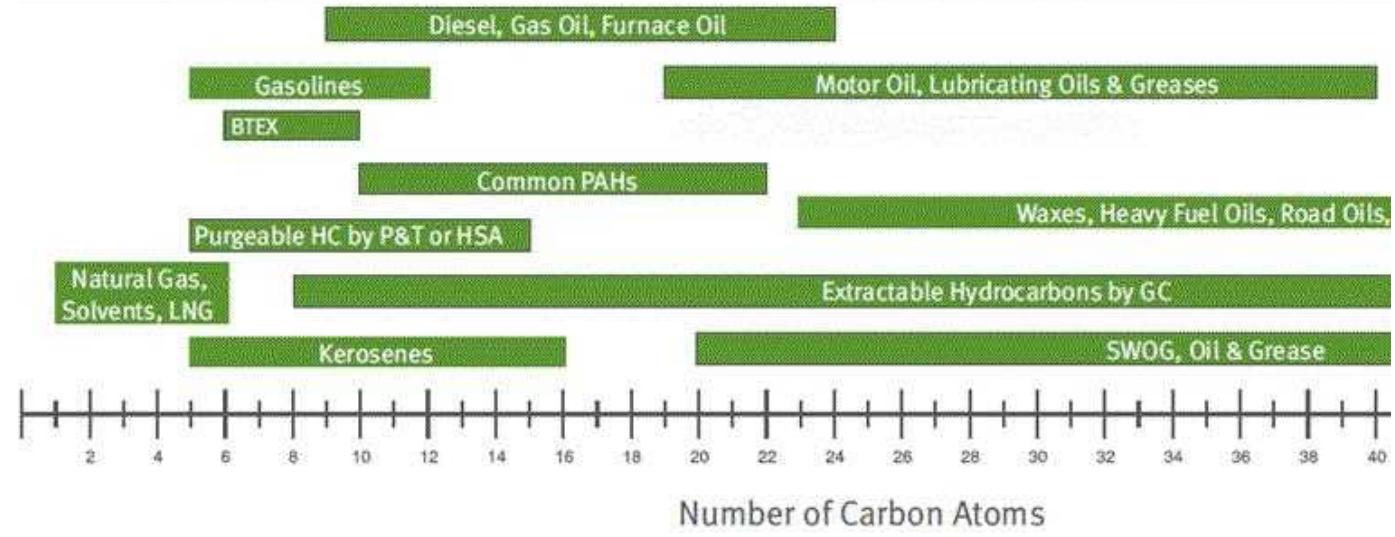
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C557919
Report Date: 2025/07/04
Bureau Veritas Sample: DNZ762

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Reference: TULSEQUAH CHIEF BC
Client ID: 25-06-FB03

EPH in Water when PAH required Chromatogram



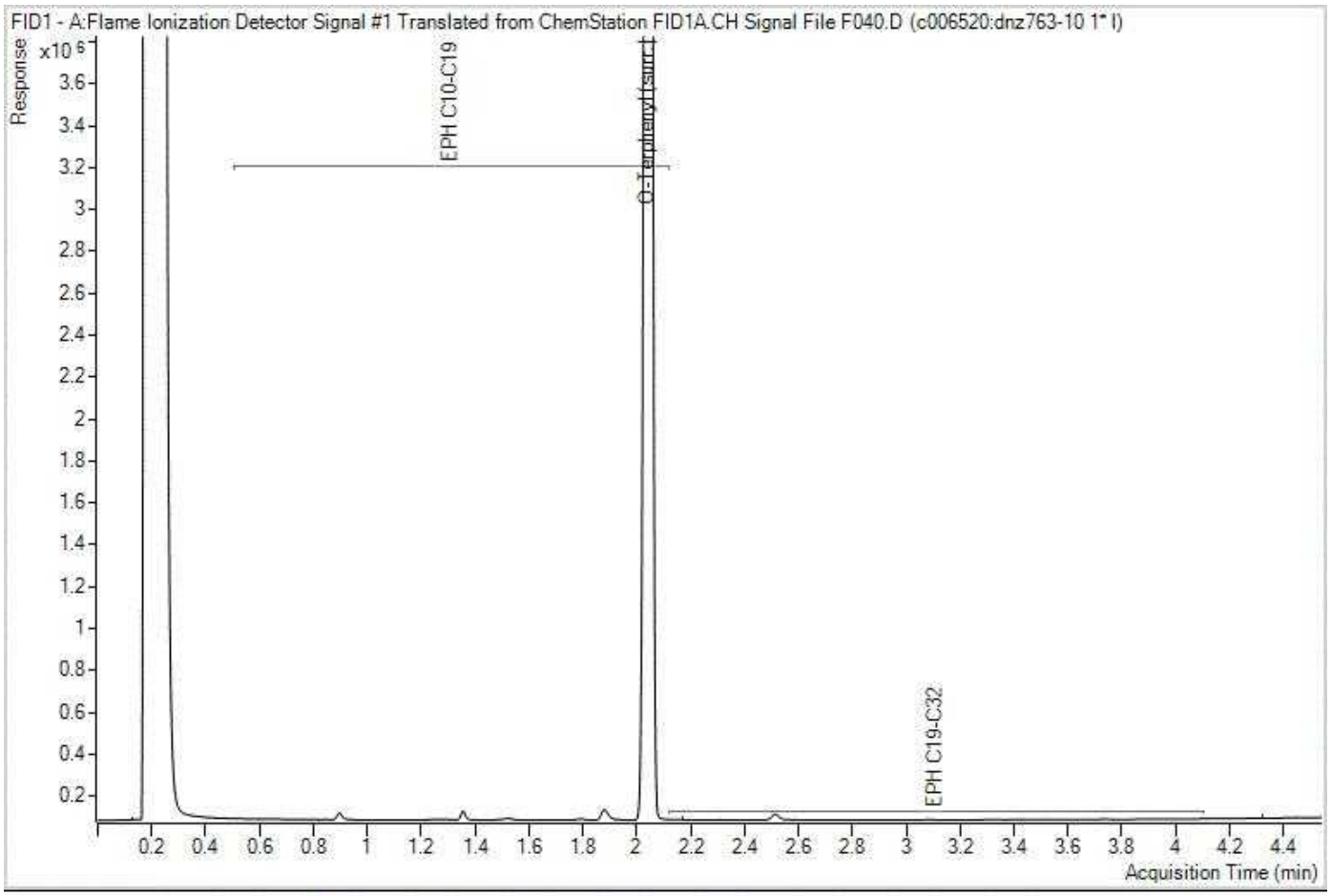


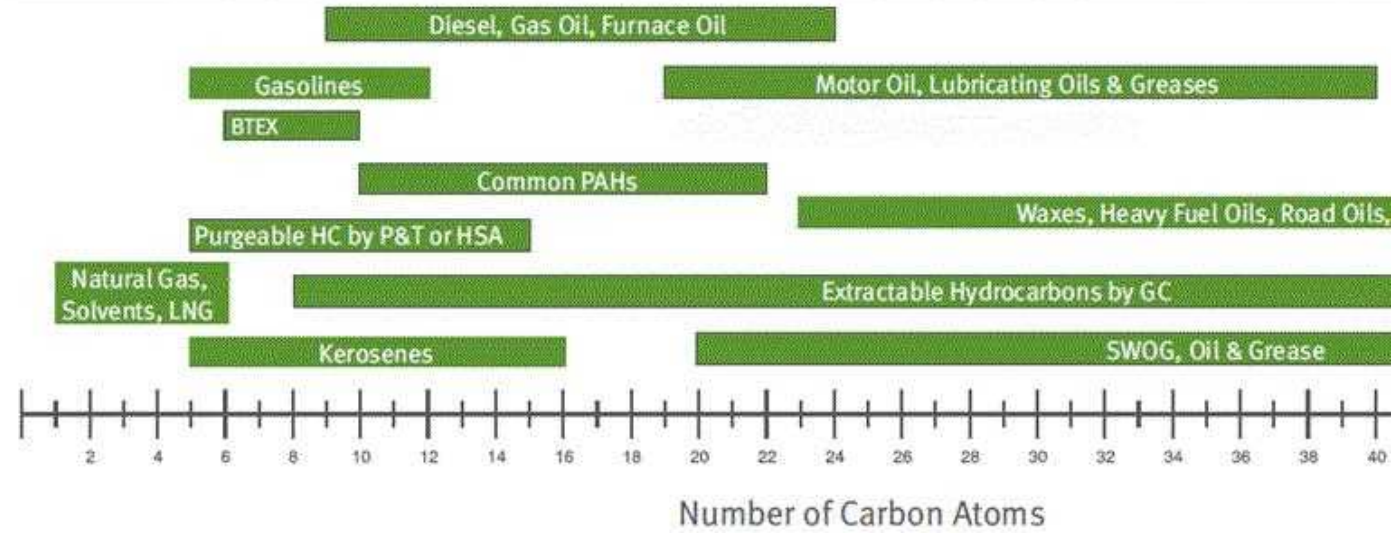
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C557919
Report Date: 2025/07/04
Bureau Veritas Sample: DNZ763

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Reference: TULSEQUAH CHIEF BC
Client ID: 25-06-TB01

EPH in Water when PAH required Chromatogram





Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your P.O. #: WHR430
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 112020

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/09/05
Report #: R3706615
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C573671
Received: 2025/08/26, 17:20

Sample Matrix: Surface Water
Samples Received: 39

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A	2025/08/28	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	23	N/A	2025/08/29	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	15	N/A	2025/08/30	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	19	N/A	2025/08/29	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry	20	N/A	2025/09/02	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Carbon (DOC) (1)	29	N/A	2025/08/29	BBY6SOP-00053	SM 24 5310 B m
Carbon (DOC) (1)	10	N/A	2025/09/02	BBY6SOP-00053	SM 24 5310 B m
Conductivity @25C	1	N/A	2025/08/28	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	23	N/A	2025/08/29	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	15	N/A	2025/08/30	BBY6SOP-00026	SM 24 2510 B m
Fluoride	20	N/A	2025/08/29	BBY6SOP-00037	SM 24 4500-F C m
Fluoride	6	N/A	2025/08/30	BBY6SOP-00037	SM 24 4500-F C m
Fluoride	13	N/A	2025/09/03	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (2)	1	N/A	2025/09/02	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	11	N/A	2025/09/03	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	27	N/A	2025/09/05	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	38	N/A	2025/09/02	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	1	N/A	2025/09/04	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (3)	20	2025/08/29	2025/09/02	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Dissolved) by CV (3)	19	2025/09/02	2025/09/03	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	34	2025/08/29	2025/09/02	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	5	2025/09/03	2025/09/03	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Ion Ratio (Cation sum/Anion sum)	22	N/A	2025/09/02	BBY WI-00033	Auto Calc
Ion Ratio (Cation sum/Anion sum)	16	N/A	2025/09/03	BBY WI-00033	Auto Calc
Ion Ratio (Cation sum/Anion sum)	1	N/A	2025/09/04	BBY WI-00033	Auto Calc
Ion Balance	22	N/A	2025/09/02	BBY WI-00033	Auto Calc
Ion Balance	16	N/A	2025/09/03	BBY WI-00033	Auto Calc
Ion Balance	1	N/A	2025/09/04	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	38	N/A	2025/09/02	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	1	N/A	2025/09/04	BBY WI-00033	Auto Calc

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR430
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 112020

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/09/05
Report #: R3706615
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C573671
Received: 2025/08/26, 17:20

Sample Matrix: Surface Water
Samples Received: 39

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICPMS Low Level (lab filter) (4)	38	N/A	2025/08/30	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (lab filter) (4)	1	N/A	2025/09/03	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	35	2025/09/04	2025/09/05	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2025/09/02	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	11	N/A	2025/09/03	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	27	N/A	2025/09/05	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	4	N/A	2025/09/04	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	27	N/A	2025/09/03	BBY6SOP-00016	SM 24 4500-N C m
Nitrogen (Total)	12	N/A	2025/09/04	BBY6SOP-00016	SM 24 4500-N C m
Ammonia-N (Total)	38	N/A	2025/08/29	AB SOP-00007	SM 24 4500 NH3 A G m
Ammonia-N (Total)	1	N/A	2025/09/04	AB SOP-00007	SM 24 4500 NH3 A G m
Nitrate + Nitrite (N)	4	N/A	2025/08/28	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrate + Nitrite (N)	35	N/A	2025/08/30	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	4	N/A	2025/08/28	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrite (N) Regular Level Water	35	N/A	2025/08/30	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	4	N/A	2025/08/29	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N)	35	N/A	2025/09/03	BBY WI-00033	Auto Calc
pH @25°C (5)	1	N/A	2025/08/28	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (5)	23	N/A	2025/08/29	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (5)	15	N/A	2025/08/30	BBY6SOP-00026	SM 24 4500-H+ B m
Orthophosphate by Automated Analyzer (6)	38	N/A	2025/08/28	BBY6SOP-00013	SM 24 4500-P E m
Orthophosphate by Automated Analyzer (6)	1	N/A	2025/09/03	BBY6SOP-00013	SM 24 4500-P E m
Total Dissolved Solids (Calculated)	22	N/A	2025/09/02	BBY WI-00033	Calculated Parameter
Total Dissolved Solids (Calculated)	16	N/A	2025/09/03	BBY WI-00033	Calculated Parameter
Total Dissolved Solids (Calculated)	1	N/A	2025/09/04	BBY WI-00033	Calculated Parameter
Total Kjeldahl Nitrogen (Total)	27	N/A	2025/09/03	BBY WI-00033	Auto Calc
Total Kjeldahl Nitrogen (Total)	12	N/A	2025/09/04	BBY WI-00033	Auto Calc
Total Phosphorus Dissolved client FF/FP (7)	9	2025/08/28	2025/08/29	BBY6SOP-00013	SM 24 4500-P E m
Total Phosphorus Dissolved client FF/FP (7)	30	2025/09/02	2025/09/03	BBY6SOP-00013	SM 24 4500-P E m
Total Phosphorus	39	2025/09/02	2025/09/03	BBY6SOP-00013	SM 24 4500-P E m
Total Suspended Solids (NFR)	20	2025/08/28	2025/08/29	BBY6SOP-00034	SM 24 2540 D m

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR430
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 112020

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/09/05
Report #: R3706615
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C573671
Received: 2025/08/26, 17:20

Sample Matrix: Surface Water
Samples Received: 39

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Total Suspended Solids (NFR)	19	2025/08/29	2025/09/02	BBY6SOP-00034	SM 24 2540 D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(3) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(4) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.
For Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(6) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
(7) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR430
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 112020

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/09/05
Report #: R3706615
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C573671
Received: 2025/08/26, 17:20

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
05 Sep 2025 18:44:55

Please direct all questions regarding this Certificate of Analysis to:
Nahed Amer, Key Account Specialist
Email: Nahed.AMER@bureauveritas.com
Phone# (604) 734 7276

==========

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS062		DRS063		DRS064		
Sampling Date		2025/08/24 09:40		2025/08/22 17:00		2025/08/23 16:30		
COC Number		112020		112020		112020		
	UNITS	W10/TUL-00	QC Batch	TUL-06/SW16-3	QC Batch	SW21-2	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C068718	<0.0050	C068718	<0.0050	0.0050	C068718
Calculated Parameters								
Ion Balance (% Difference)	%	5.5	C065211	0.096	C065211	1.1	N/A	C065211
Ion Ratio (cation sum / anion sum)	N/A	1.1	C064128	1.0	C064128	1.0	0.010	C064128
Nitrate (N)	mg/L	0.032	C065218	0.037	C065218	<0.020	0.020	C065218
Calculated Total Dissolved Solids	mg/L	36	C064770	35	C064770	24	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.041	C065224	0.033	C065224	0.072	0.020	C065224
Misc. Inorganics								
Conductivity	uS/cm	71	C066776	66	C066776	48	2.0	C066776
Dissolved Organic Carbon (C)	mg/L	<0.50	C067548	<0.50	C067548	<0.50	0.50	C067548
pH	pH	6.92	C066778	6.84	C066778	6.77	N/A	C066778
Total Suspended Solids	mg/L	68	C067831	53	C065893	220	1.0	C065893
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C066771	<1.0	C066771	<1.0	1.0	C066771
Alkalinity (Total as CaCO3)	mg/L	18	C066771	20	C066771	14	1.0	C066771
Bicarbonate (HCO3)	mg/L	22	C066771	25	C066771	17	1.0	C066771
Carbonate (CO3)	mg/L	<1.0	C066771	<1.0	C066771	<1.0	1.0	C066771
Dissolved Fluoride (F)	mg/L	<0.050	C070419	<0.050	C070419	<0.050	0.050	C068179
Hydroxide (OH)	mg/L	<1.0	C066771	<1.0	C066771	<1.0	1.0	C066771
Chloride (Cl)	mg/L	<1.0	C068129	<1.0	C068133	<1.0	1.0	C068133
Sulphate (SO4)	mg/L	12	C068129	11	C068133	7.1	1.0	C068133
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C067806	<0.015	C067806	<0.015	0.015	C067806
Orthophosphate (P)	mg/L	<0.0030	C065888	<0.0030	C065888	<0.0030	0.0030	C065888
Dissolved Phosphorus (P)	mg/L	<0.0030	C066168	<0.0030	C066168	<0.0030	0.0030	C066168
Total Phosphorus (P)	mg/L	0.067	C069863	0.040	C069863	0.083	0.0030	C069863
Nitrate plus Nitrite (N)	mg/L	0.032	C068717	0.037	C068717	<0.020	0.020	C068717
Total Nitrogen (N)	mg/L	0.073	C070407	0.070	C070407	0.072	0.020	C070407

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS065		DRS066	DRS067		DRS068		
Sampling Date		2025/08/23 12:20		2025/08/24 13:30	2025/08/24 09:10		2025/08/24 12:10		
COC Number		112020		112020	112020		112020		
	UNITS	SW24-2	QC Batch	TUL-03	TUL-05	QC Batch	W27	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	C068718	<0.0050	<0.0050	C068720	<0.0050	0.0050	C068718
Calculated Parameters									
Ion Balance (% Difference)	%	5.0	C065211	2.0	1.6	C065211	2.9	N/A	C065211
Ion Ratio (cation sum / anion sum)	N/A	1.1	C064128	1.0	1.0	C064128	1.1	0.010	C064128
Nitrate (N)	mg/L	0.199	C065218	0.039	0.032	C065218	0.067	0.020	C065218
Calculated Total Dissolved Solids	mg/L	66	C064770	38	38	C064770	89	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	C065224	<0.020	0.20	C065224	0.057	0.020	C065224
Misc. Inorganics									
Conductivity	uS/cm	130	C066776	71	71	C066776	160	2.0	C066912
Dissolved Organic Carbon (C)	mg/L	0.64	C067548	<0.50	<0.50	C067548	<0.50	0.50	C067548
pH	pH	7.62	C066778	6.96	7.00	C066778	7.46	N/A	C066913
Total Suspended Solids	mg/L	<1.0	C067741	57	52	C067831	12	1.0	C067831
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	C066771	<1.0	<1.0	C066771	<1.0	1.0	C066908
Alkalinity (Total as CaCO3)	mg/L	57	C066771	21	21	C066771	43	1.0	C066908
Bicarbonate (HCO3)	mg/L	69	C066771	26	26	C066771	53	1.0	C066908
Carbonate (CO3)	mg/L	<1.0	C066771	<1.0	<1.0	C066771	<1.0	1.0	C066908
Dissolved Fluoride (F)	mg/L	<0.050	C068179	<0.050	<0.050	C070419	0.14	0.050	C068117
Hydroxide (OH)	mg/L	<1.0	C066771	<1.0	<1.0	C066771	<1.0	1.0	C066908
Chloride (Cl)	mg/L	<1.0	C068129	<1.0	<1.0	C068129	<1.0	1.0	C068129
Sulphate (SO4)	mg/L	4.1	C068129	12	12	C068129	32	1.0	C068129
Nutrients									
Total Ammonia (N)	mg/L	<0.015	C067796	0.040	<0.015	C067796	<0.015	0.015	C067796
Orthophosphate (P)	mg/L	<0.0030	C065888	<0.0030	<0.0030	C065888	<0.0030	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	<0.0030	C066168	<0.0030	0.060	C066168	<0.0030	0.0030	C066168
Total Phosphorus (P)	mg/L	<0.0030	C069869	0.062	0.063	C069869	0.012	0.0030	C069869
Nitrate plus Nitrite (N)	mg/L	0.199	C068717	0.039	0.032	C068719	0.067	0.020	C068717
Total Nitrogen (N)	mg/L	0.214	C070407	0.043	0.236	C070407	0.124	0.020	C070407

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS069		DRS070			DRS071		
Sampling Date		2025/08/21 17:30		2025/08/23 08:50			2025/08/23 09:15		
COC Number		112020		112020			112020		
	UNITS	WTP Pond	QC Batch	SE-2	RDL	QC Batch	5200 Level Adit	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	C068720	<0.0050	0.0050	C068720	<0.13 (1)	0.13	C068720
Calculated Parameters									
Ion Balance (% Difference)	%	4.1	C065211	0.66	N/A	C065211	2.7	N/A	C065211
Ion Ratio (cation sum / anion sum)	N/A	1.1	C064128	1.0	0.010	C064128	1.1	0.010	C064128
Nitrate (N)	mg/L	<0.020	C065218	0.033	0.020	C065218	<0.50	0.50	C065218
Calculated Total Dissolved Solids	mg/L	310	C064770	380	5.0	C064770	920	10	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.15	C065224	0.063	0.020	C065224	<0.50	0.50	C065224
Misc. Inorganics									
Conductivity	uS/cm	490	C068157	730	2.0	C068157	1600	2.0	C068157
Dissolved Organic Carbon (C)	mg/L	1.6	C067548	<0.50	0.50	C067548	<0.50	0.50	C067548
pH	pH	7.50	C068145	3.58	N/A	C068145	2.97	N/A	C068145
Total Suspended Solids	mg/L	3.6	C065893	28	1.0	C067741	23	1.0	C067741
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Alkalinity (Total as CaCO3)	mg/L	58	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Bicarbonate (HCO3)	mg/L	70	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Carbonate (CO3)	mg/L	<1.0	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Dissolved Fluoride (F)	mg/L	0.11	C068045	0.56	0.050	C068045	1.1	0.050	C068045
Hydroxide (OH)	mg/L	<1.0	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Chloride (Cl)	mg/L	<1.0	C068129	6.7	1.0	C067707	<1.0	1.0	C067707
Sulphate (SO4)	mg/L	170	C068129	290	5.0	C067707	730	10	C067707
Nutrients									
Total Ammonia (N)	mg/L	<0.015	C067796	0.022	0.015	C067796	0.20	0.015	C072396
Orthophosphate (P)	mg/L	<0.0030	C065888	<0.0030	0.0030	C065875	0.010	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	0.010	C066168	<0.0030	0.0030	C066168	0.032	0.0030	C069915
Total Phosphorus (P)	mg/L	0.029	C069869	0.034	0.0030	C069869	0.044	0.0030	C069869
Nitrate plus Nitrite (N)	mg/L	<0.020	C068719	0.033	0.020	C068719	<0.50 (1)	0.50	C068719
Total Nitrogen (N)	mg/L	0.150	C070407	0.096	0.020	C070407	<0.020	0.020	C070407

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Detection limit raised due to interferent.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS072			DRS073		DRS074		
Sampling Date		2025/08/23 10:00			2025/08/23 15:20		2025/08/23 15:00		
COC Number		112020			112020		112020		
	UNITS	5400 Level Adit	RDL	QC Batch	5900 Level Adit	QC Batch	6400 Seep	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	0.0050	C068720	<0.0050	C068720	<0.0050	0.0050	C068720
Calculated Parameters									
Ion Balance (% Difference)	%	0.11	N/A	C065207	3.1	C064129	2.2	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	1.0	0.010	C064128	1.1	C064128	1.0	0.010	C064128
Nitrate (N)	mg/L	0.082	0.020	C065218	0.334	C065218	0.460	0.020	C065218
Calculated Total Dissolved Solids	mg/L	280	5.0	C064770	190	C064770	73	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.23	0.020	C065224	0.053	C065224	0.043	0.020	C065224
Misc. Inorganics									
Conductivity	uS/cm	510	2.0	C066776	320	C068172	130	2.0	C068172
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	C067802	0.51	C067802	<0.50	0.50	C067802
pH	pH	4.60	N/A	C066778	7.57	C068164	7.75	N/A	C068164
Total Suspended Solids	mg/L	30	1.0	C067741	8.8	C067741	2.8	1.0	C067741
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	C066771	<1.0	C068173	<1.0	1.0	C068173
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	C066771	55	C068173	55	1.0	C068173
Bicarbonate (HCO3)	mg/L	<1.0	1.0	C066771	67	C068173	66	1.0	C068173
Carbonate (CO3)	mg/L	<1.0	1.0	C066771	<1.0	C068173	<1.0	1.0	C068173
Dissolved Fluoride (F)	mg/L	0.38	0.050	C070425	0.11	C068045	<0.050	0.050	C068045
Hydroxide (OH)	mg/L	<1.0	1.0	C066771	<1.0	C068173	<1.0	1.0	C068173
Chloride (Cl)	mg/L	10	1.0	C068129	<1.0	C067707	<1.0	1.0	C067707
Sulphate (SO4)	mg/L	210	5.0	C068129	91	C067707	11	1.0	C067707
Nutrients									
Total Ammonia (N)	mg/L	0.030	0.015	C067806	<0.015	C067821	<0.015	0.015	C067806
Orthophosphate (P)	mg/L	0.0045	0.0030	C065888	<0.0030	C065875	<0.0030	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	<0.0030 (1)	0.0030	C069915	<0.0030	C069915	<0.0030	0.0030	C069915
Total Phosphorus (P)	mg/L	0.079	0.0030	C069869	<0.0030	C069869	<0.0030	0.0030	C069869
Nitrate plus Nitrite (N)	mg/L	0.082	0.020	C068719	0.334	C068719	0.460	0.020	C068719

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Dissolved Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS072			DRS073		DRS074		
Sampling Date		2025/08/23 10:00			2025/08/23 15:20		2025/08/23 15:00		
COC Number		112020			112020		112020		
	UNITS	**5400 Level Adit**	**RDL**	**QC Batch**	**5900 Level Adit**	**QC Batch**	**6400 Seep**	**RDL**	**QC Batch**
Total Nitrogen (N)	mg/L	0.310	0.020	C070407	0.387	C070407	0.503	0.020	C070407
RDL = Reportable Detection Limit									

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS075		DRS076		DRS077		DRS078		
Sampling Date		2025/08/23 11:30		2025/08/23 14:00		2025/08/24 08:40		2025/08/22 15:20		
COC Number		112020		112020		112020		112020		
	UNITS	CC-02	QC Batch	CC-04	QC Batch	SW24-1	QC Batch	SW24-11	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C068720	<0.0050	C068720	<0.0050	C068718	<0.0050	0.0050	C068720
Calculated Parameters										
Ion Balance (% Difference)	%	3.2	C064129	6.1	C064129	0.71	C064129	3.2	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	1.1	C064128	1.1	C064128	1.0	C064128	1.1	0.010	C064128
Nitrate (N)	mg/L	0.258	C065218	0.144	C065218	0.035	C065218	0.042	0.020	C065218
Calculated Total Dissolved Solids	mg/L	67	C064770	70	C064770	39	C064770	44	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.049	C065224	0.025	C064507	<0.020	C064507	0.096	0.020	C064507
Misc. Inorganics										
Conductivity	uS/cm	130	C066776	130	C068157	73	C066776	82	2.0	C066776
Dissolved Organic Carbon (C)	mg/L	0.65	C067802	<0.50	C067802	<0.50	C067802	<0.50	0.50	C067802
pH	pH	7.41	C066778	7.45	C068145	6.98	C066778	7.06	N/A	C066778
Total Suspended Solids	mg/L	1.6	C067741	<1.0	C067741	49	C067831	40	1.0	C065893
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C066771	<1.0	C068159	<1.0	C066771	<1.0	1.0	C066771
Alkalinity (Total as CaCO3)	mg/L	52	C066771	51	C068159	22	C066771	23	1.0	C066771
Bicarbonate (HCO3)	mg/L	64	C066771	62	C068159	27	C066771	29	1.0	C066771
Carbonate (CO3)	mg/L	<1.0	C066771	<1.0	C068159	<1.0	C066771	<1.0	1.0	C066771
Dissolved Fluoride (F)	mg/L	<0.050	C067746	<0.050	C068045	<0.050	C070419	<0.050	0.050	C070419
Hydroxide (OH)	mg/L	<1.0	C066771	<1.0	C068159	<1.0	C066771	<1.0	1.0	C066771
Chloride (Cl)	mg/L	<1.0	C068129	<1.0	C068129	<1.0	C068129	<1.0	1.0	C068129
Sulphate (SO4)	mg/L	8.3	C068129	11	C068129	12	C068129	14	1.0	C068129
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C067806	<0.015	C067821	<0.015	C067806	<0.015	0.015	C067821
Orthophosphate (P)	mg/L	0.0031	C065888	<0.0030	C065888	<0.0030	C065888	0.0038	0.0030	C065888
Dissolved Phosphorus (P)	mg/L	<0.0030 (1)	C069915	<0.0030	C069915	0.0043	C069915	<0.0030 (1)	0.0030	C069915
Total Phosphorus (P)	mg/L	<0.0030 (2)	C069869	<0.0030	C069869	0.057	C069869	0.056	0.0030	C069869
Nitrate plus Nitrite (N)	mg/L	0.258	C068719	0.144	C068719	0.035	C068717	0.042	0.020	C068719

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Dissolved Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.
(2) Total Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS075		DRS076		DRS077		DRS078		
Sampling Date		2025/08/23 11:30		2025/08/23 14:00		2025/08/24 08:40		2025/08/22 15:20		
COC Number		112020		112020		112020		112020		
	UNITS	**CC-02**	**QC Batch**	**CC-04**	**QC Batch**	**SW24-1**	**QC Batch**	**SW24-11**	**RDL**	**QC Batch**
Total Nitrogen (N)	mg/L	0.307	C070407	0.169	C070407	0.045	C070407	0.137	0.020	C070662
RDL = Reportable Detection Limit										

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS079			DRS080		DRS081		
Sampling Date		2025/08/21 17:10			2025/08/22 15:40		2025/08/22 16:20		
COC Number		112020			112020		112020		
	UNITS	W11	RDL	QC Batch	W44	QC Batch	W45	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	0.0050	C068720	<0.0050	C068718	<0.0050	0.0050	C068718
Calculated Parameters									
Ion Balance (% Difference)	%	1.6	N/A	C064129	2.9	C064129	3.1	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	1.0	0.010	C064128	1.1	C064128	1.1	0.010	C064128
Nitrate (N)	mg/L	0.059	0.020	C064214	0.062	C064214	0.036	0.020	C064214
Calculated Total Dissolved Solids	mg/L	180	5.0	C064770	110	C064770	100	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.065	0.020	C064507	0.024	C064507	0.054	0.020	C064507
Misc. Inorganics									
Conductivity	uS/cm	320	2.0	C066776	190	C066776	180	2.0	C066776
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	C067802	<0.50	C067802	<0.50	0.50	C067802
pH	pH	5.80	N/A	C066778	7.58	C066778	7.78	N/A	C066778
Total Suspended Solids	mg/L	11	1.0	C065893	2.4	C065893	2.0	1.0	C065893
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	C066771	<1.0	C066771	<1.0	1.0	C066771
Alkalinity (Total as CaCO3)	mg/L	1.6	1.0	C066771	67	C066771	67	1.0	C066771
Bicarbonate (HCO3)	mg/L	2.0	1.0	C066771	81	C066771	82	1.0	C066771
Carbonate (CO3)	mg/L	<1.0	1.0	C066771	<1.0	C066771	<1.0	1.0	C066771
Dissolved Fluoride (F)	mg/L	0.17	0.050	C070419	0.066	C070419	0.051	0.050	C070419
Hydroxide (OH)	mg/L	<1.0	1.0	C066771	<1.0	C066771	<1.0	1.0	C066771
Chloride (Cl)	mg/L	1.6	1.0	C068129	<1.0	C068129	<1.0	1.0	C068129
Sulphate (SO4)	mg/L	130	5.0	C068129	26	C068129	23	1.0	C068129
Nutrients									
Total Ammonia (N)	mg/L	<0.015	0.015	C067821	<0.015	C067821	<0.015	0.015	C067806
Orthophosphate (P)	mg/L	<0.0030	0.0030	C065888	<0.0030	C065888	<0.0030	0.0030	C065888
Dissolved Phosphorus (P)	mg/L	<0.0030	0.0030	C069915	<0.0030	C069915	<0.0030	0.0030	C069915
Total Phosphorus (P)	mg/L	0.0095	0.0030	C069869	<0.0030	C069869	<0.0030	0.0030	C069869
Nitrate plus Nitrite (N)	mg/L	0.059	0.020	C068719	0.062	C068717	0.036	0.020	C068717
Total Nitrogen (N)	mg/L	0.124	0.020	C070611	0.086	C070662	0.090	0.020	C070662

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS082		DRS083		DRS084		
Sampling Date		2025/08/24 08:50		2025/08/21 13:50		2025/08/21 12:50		
COC Number		112020		112020		112020		
	UNITS	W46/SW21-4	QC Batch	SW16-8	QC Batch	SW21-5	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C066546	<0.0050	C068724	<0.0050	0.0050	C068720
Calculated Parameters								
Ion Balance (% Difference)	%	3.5	C064129	3.3	C064129	4.6	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	1.1	C064128	1.1	C064128	1.1	0.010	C064128
Nitrate (N)	mg/L	0.041	C064214	0.315	C064214	<0.020	0.020	C064214
Calculated Total Dissolved Solids	mg/L	42	C064770	72	C064770	43	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.049	C064507	0.025	C064507	0.037	0.020	C064507
Misc. Inorganics								
Conductivity	uS/cm	78	C067805	140	C067805	85	2.0	C066553
Dissolved Organic Carbon (C)	mg/L	<0.50	C067802	0.90	C067802	<0.50	0.50	C067802
pH	pH	7.03	C067808	7.67	C067808	7.41	N/A	C066556
Total Suspended Solids	mg/L	48	C068358	2.8	C065893	4.0	1.0	C065893
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C067794	<1.0	C067794	<1.0	1.0	C066549
Alkalinity (Total as CaCO3)	mg/L	22	C067794	59	C067794	34	1.0	C066549
Bicarbonate (HCO3)	mg/L	27	C067794	72	C067794	41	1.0	C066549
Carbonate (CO3)	mg/L	<1.0	C067794	<1.0	C067794	<1.0	1.0	C066549
Dissolved Fluoride (F)	mg/L	0.052	C067746	<0.050	C068045	<0.050	0.050	C068179
Hydroxide (OH)	mg/L	<1.0	C067794	<1.0	C067794	<1.0	1.0	C066549
Chloride (Cl)	mg/L	<1.0	C067707	<1.0	C067707	<1.0	1.0	C067707
Sulphate (SO4)	mg/L	14	C067707	7.5	C067707	5.6	1.0	C067707
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C067806	<0.015	C067821	<0.015	0.015	C067821
Orthophosphate (P)	mg/L	<0.0030	C065875	0.0032	C065875	<0.0030	0.0030	C065888
Dissolved Phosphorus (P)	mg/L	<0.0030	C069915	<0.0030 (1)	C069915	<0.0030	0.0030	C069915
Total Phosphorus (P)	mg/L	<0.0030	C069869	0.0042	C069869	0.0054	0.0030	C069869
Nitrate plus Nitrite (N)	mg/L	0.041	C066542	0.315	C068723	<0.020	0.020	C068719

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Dissolved Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS082		DRS083		DRS084		
Sampling Date		2025/08/24 08:50		2025/08/21 13:50		2025/08/21 12:50		
COC Number		112020		112020		112020		
	UNITS	**W46/SW21-4**	**QC Batch**	**SW16-8**	**QC Batch**	**SW21-5**	**RDL**	**QC Batch**
Total Nitrogen (N)	mg/L	0.090	C070662	0.340	C070611	0.037	0.020	C070662
RDL = Reportable Detection Limit								

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS085		DRS086		DRS087		DRS088		
Sampling Date		2025/08/21 15:20		2025/08/22 14:20		2025/08/22 09:40		2025/08/22 11:10		
COC Number		112020		112020		112020		112020		
	UNITS	SW24-4	QC Batch	TUL-09/W51	QC Batch	SW24-6	QC Batch	SW24-7	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C068718	<0.0050	C068724	<0.0050	C068718	<0.0050	0.0050	C068720
Calculated Parameters										
Ion Balance (% Difference)	%	2.4	C064129	3.1	C064129	3.3	C064129	0.31	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	0.95	C064128	1.1	C064128	1.1	C064128	1.0	0.010	C064128
Nitrate (N)	mg/L	0.082	C064214	0.035	C064214	0.039	C064214	0.041	0.020	C064214
Calculated Total Dissolved Solids	mg/L	68	C064770	43	C064770	44	C064770	45	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.050	C064507	0.021	C064507	0.024	C064507	0.028	0.020	C064507
Misc. Inorganics										
Conductivity	uS/cm	130	C068157	80	C067805	83	C068157	83	2.0	C068172
Dissolved Organic Carbon (C)	mg/L	<0.50	C067802	<0.50	C067802	<0.50	C067802	<0.50	0.50	C067802
pH	pH	7.39	C068145	7.11	C067808	7.07	C068145	7.14	N/A	C068164
Total Suspended Solids	mg/L	2.0	C065893	44	C065893	43	C065893	44	1.0	C065893
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C068159	<1.0	C067794	<1.0	C068159	<1.0	1.0	C068173
Alkalinity (Total as CaCO3)	mg/L	39	C068159	23	C067794	24	C068159	25	1.0	C068173
Bicarbonate (HCO3)	mg/L	48	C068159	28	C067794	29	C068159	31	1.0	C068173
Carbonate (CO3)	mg/L	<1.0	C068159	<1.0	C067794	<1.0	C068159	<1.0	1.0	C068173
Dissolved Fluoride (F)	mg/L	0.085	C068045	0.052	C068045	0.052	C068045	0.053	0.050	C068045
Hydroxide (OH)	mg/L	<1.0	C068159	<1.0	C067794	<1.0	C068159	<1.0	1.0	C068173
Chloride (Cl)	mg/L	<1.0	C067590	<1.0	C067707	<1.0	C067617	<1.0	1.0	C068133
Sulphate (SO4)	mg/L	21	C067590	14	C067707	14	C067617	14	1.0	C068133
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C067806	<0.015	C067821	<0.015	C067821	<0.015	0.015	C067806
Orthophosphate (P)	mg/L	<0.0030	C065875	<0.0030	C065875	<0.0030	C065875	<0.0030	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	<0.0030	C069915	<0.0030	C069915	<0.0030	C069915	<0.0030	0.0030	C069915
Total Phosphorus (P)	mg/L	0.0034	C069874	0.049	C069874	0.047	C069874	0.049	0.0030	C069874
Nitrate plus Nitrite (N)	mg/L	0.082	C068717	0.035	C068723	0.039	C068717	0.041	0.020	C068719
Total Nitrogen (N)	mg/L	0.132	C070662	0.056	C070611	0.063	C070611	0.069	0.020	C070611

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS089		DRS090		DRS091		DRS092		
Sampling Date		2025/08/22 12:30		2025/08/22 13:20		2025/08/22 13:40		2025/08/22 11:30		
COC Number		112020		112020		112020		112020		
	UNITS	SW24-8	QC Batch	SW24-10	QC Batch	TUL-12	QC Batch	W32/TUL-15	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C068720	<0.0050	C068720	<0.0050	C068720	<0.0050	0.0050	C066546
Calculated Parameters										
Ion Balance (% Difference)	%	0.60	C064129	2.9	C064129	5.5	C064129	0.081	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	0.98	C064128	1.1	C064128	1.1	C064128	0.99	0.010	C064128
Nitrate (N)	mg/L	0.085	C064214	0.033	C064214	0.037	C064214	0.031	0.020	C064214
Calculated Total Dissolved Solids	mg/L	95	C064770	47	C064770	55	C064770	45	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.10	C064507	0.039	C064507	<0.020	C064507	<0.020	0.020	C064507
Misc. Inorganics										
Conductivity	uS/cm	180	C066776	86	C066776	100	C066776	82	2.0	C067805
Dissolved Organic Carbon (C)	mg/L	<0.50	C067802	<0.50	C067802	<0.50	C070164	<0.50	0.50	C070164
pH	pH	7.72	C066778	7.20	C066778	7.43	C066778	7.10	N/A	C067808
Total Suspended Solids	mg/L	<1.0	C065893	42	C065893	1.6	C065893	44	1.0	C065893
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C066771	<1.0	C066771	<1.0	C066771	<1.0	1.0	C067794
Alkalinity (Total as CaCO3)	mg/L	65	C066771	25	C066771	36	C066771	26	1.0	C067794
Bicarbonate (HCO3)	mg/L	79	C066771	31	C066771	44	C066771	31	1.0	C067794
Carbonate (CO3)	mg/L	<1.0	C066771	<1.0	C066771	<1.0	C066771	<1.0	1.0	C067794
Dissolved Fluoride (F)	mg/L	0.056	C070419	<0.050	C070419	<0.050	C070419	0.053	0.050	C068045
Hydroxide (OH)	mg/L	<1.0	C066771	<1.0	C066771	<1.0	C066771	<1.0	1.0	C067794
Chloride (Cl)	mg/L	1.1	C068129	<1.0	C068129	<1.0	C068129	<1.0	1.0	C067707
Sulphate (SO4)	mg/L	21	C068129	14	C068129	12	C068129	14	1.0	C067707
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C067806	<0.015	C067821	<0.015	C067821	<0.015	0.015	C067806
Orthophosphate (P)	mg/L	<0.0030	C065888	<0.0030	C065888	<0.0030	C065888	<0.0030	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	<0.0030	C069915	<0.0030	C069917	<0.0030	C069917	0.052	0.0030	C069917
Total Phosphorus (P)	mg/L	<0.0030	C069874	0.046	C069874	0.0041	C069874	0.051 (1)	0.0030	C069874
Nitrate plus Nitrite (N)	mg/L	0.085	C068719	0.033	C068719	0.037	C068719	0.031	0.020	C066542
Total Nitrogen (N)	mg/L	0.185	C070611	0.073	C070611	0.049	C070662	0.047	0.020	C070662

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) TP < DP: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS093		DRS094			DRS095		
Sampling Date		2025/08/22 09:45		2025/08/22 15:20			2025/08/23 10:00		
COC Number		112020		112020			112020		
	UNITS	25-08-DUP02	QC Batch	25-08-DUP03	RDL	QC Batch	25-08-DUP04	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	C068720	<0.0050	0.0050	C068724	<0.0050	0.0050	C068718
Calculated Parameters									
Ion Balance (% Difference)	%	1.4	C064129	0.95	N/A	C064129	0.64	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	1.0	C064128	1.0	0.010	C064128	1.0	0.010	C064128
Nitrate (N)	mg/L	0.042	C064214	0.037	0.020	C064214	0.084	0.020	C064214
Calculated Total Dissolved Solids	mg/L	45	C064770	45	1.0	C064770	290	5.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.025	C064507	0.040	0.020	C064507	0.14	0.020	C064507
Misc. Inorganics									
Conductivity	uS/cm	83	C068157	83	2.0	C068157	510	2.0	C068157
Dissolved Organic Carbon (C)	mg/L	<0.50	C070164	<0.50	0.50	C070164	<0.50	0.50	C070164
pH	pH	7.16	C068145	7.09	N/A	C068145	4.48	N/A	C068145
Total Suspended Solids	mg/L	42	C065893	49	1.0	C065893	32	1.0	C067741
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Alkalinity (Total as CaCO3)	mg/L	25	C068159	24	1.0	C068159	<1.0	1.0	C068159
Bicarbonate (HCO3)	mg/L	30	C068159	29	1.0	C068159	<1.0	1.0	C068159
Carbonate (CO3)	mg/L	<1.0	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Dissolved Fluoride (F)	mg/L	0.052	C068045	0.080	0.050	C068045	0.46	0.050	C068045
Hydroxide (OH)	mg/L	<1.0	C068159	<1.0	1.0	C068159	<1.0	1.0	C068159
Chloride (Cl)	mg/L	<1.0	C067707	<1.0	1.0	C067707	9.8	1.0	C067707
Sulphate (SO4)	mg/L	14	C067707	14	1.0	C067707	210	5.0	C067707
Nutrients									
Total Ammonia (N)	mg/L	<0.015	C067821	<0.015	0.015	C067821	0.031	0.015	C067796
Orthophosphate (P)	mg/L	<0.0030	C065875	<0.0030	0.0030	C065875	<0.0030	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	0.048	C069917	0.054	0.0030	C069917	<0.0030	0.0030	C069917
Total Phosphorus (P)	mg/L	0.047 (1)	C069874	0.053 (1)	0.0030	C069874	0.073	0.0030	C069874
Nitrate plus Nitrite (N)	mg/L	0.042	C068719	0.037	0.020	C068723	0.084	0.020	C068717
Total Nitrogen (N)	mg/L	0.067	C070662	0.077	0.020	C070662	0.225	0.020	C070662

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) TP < DP: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS096		DRS097		DRS098		DRS099		
Sampling Date		2025/08/24 08:40		2025/08/22 10:00		2025/08/23 10:10		2025/08/24 12:30		
COC Number		112020		112020		112020		112020		
	UNITS	25-08-DUP05	QC Batch	25-08-FB02	QC Batch	25-08-FB03	QC Batch	25-08-FB04	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C066546	<0.0050	C068720	<0.0050	C068720	<0.0050	0.0050	C068724
Calculated Parameters										
Ion Balance (% Difference)	%	1.1	C064129	NC	C064129	NC	C064129	NC	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	1.0	C064128	NC	C064128	NC	C064128	NC	0.010	C064128
Nitrate (N)	mg/L	0.038	C064214	<0.020	C064214	<0.020	C064214	<0.020	0.020	C064214
Calculated Total Dissolved Solids	mg/L	39	C064770	<1.0	C064770	<1.0	C064770	<1.0	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.053	C064507	0.036	C064507	<0.020	C064507	0.020	0.020	C064507
Misc. Inorganics										
Conductivity	uS/cm	72	C067805	<2.0	C068157	<2.0	C068157	<2.0	2.0	C068157
Dissolved Organic Carbon (C)	mg/L	<0.50	C070164	<0.50	C070164	<0.50	C070164	<0.50	0.50	C070164
pH	pH	7.04	C067808	5.18	C068145	5.47	C068145	5.48	N/A	C068145
Total Suspended Solids	mg/L	49	C068358	<1.0	C065893	<1.0	C067741	<1.0	1.0	C068358
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C067794	<1.0	C068159	<1.0	C068159	<1.0	1.0	C068159
Alkalinity (Total as CaCO3)	mg/L	21	C067794	<1.0	C068159	<1.0	C068159	<1.0	1.0	C068159
Bicarbonate (HCO3)	mg/L	25	C067794	<1.0	C068159	<1.0	C068159	<1.0	1.0	C068159
Carbonate (CO3)	mg/L	<1.0	C067794	<1.0	C068159	<1.0	C068159	<1.0	1.0	C068159
Dissolved Fluoride (F)	mg/L	<0.050	C068104	<0.050	C068045	<0.050	C068045	<0.050	0.050	C068045
Hydroxide (OH)	mg/L	<1.0	C067794	<1.0	C068159	<1.0	C068159	<1.0	1.0	C068159
Chloride (Cl)	mg/L	<1.0	C067707	<1.0	C067707	<1.0	C067707	<1.0	1.0	C067707
Sulphate (SO4)	mg/L	13	C067707	<1.0	C067707	<1.0	C067707	<1.0	1.0	C067707
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C067796	<0.015	C067796	<0.015	C067796	<0.015	0.015	C067796
Orthophosphate (P)	mg/L	<0.0030	C065875	<0.0030	C065875	<0.0030	C065875	0.0031	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	<0.0030	C069917	<0.0030	C069917	<0.0030	C069917	<0.0030 (1)	0.0030	C069917
Total Phosphorus (P)	mg/L	0.053	C069874	<0.0030	C069874	<0.0030	C069874	<0.0030 (2)	0.0030	C069874
Nitrate plus Nitrite (N)	mg/L	0.038	C066542	<0.020	C068719	<0.020	C068719	<0.020	0.020	C068723

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Dissolved Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.
(2) Total Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS096		DRS097		DRS098		DRS099		
Sampling Date		2025/08/24 08:40		2025/08/22 10:00		2025/08/23 10:10		2025/08/24 12:30		
COC Number		112020		112020		112020		112020		
	UNITS	**25-08-DUP05**	**QC Batch**	**25-08-FB02**	**QC Batch**	**25-08-FB03**	**QC Batch**	**25-08-FB04**	**RDL**	**QC Batch**
Total Nitrogen (N)	mg/L	0.092	C070611	0.036	C070611	<0.020	C070611	0.020	0.020	C070611
RDL = Reportable Detection Limit										

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DRS100		
Sampling Date		2025/08/25 14:00		
COC Number		112020		
	UNITS	25-08-TB02	RDL	QC Batch
ANIONS				
Nitrite (N)	mg/L	<0.0050	0.0050	C066546
Calculated Parameters				
Ion Balance (% Difference)	%	NC	N/A	C064129
Ion Ratio (cation sum / anion sum)	N/A	NC	0.010	C064128
Nitrate (N)	mg/L	<0.020	0.020	C064214
Calculated Total Dissolved Solids	mg/L	<1.0	1.0	C064770
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	0.020	C064507
Misc. Inorganics				
Conductivity	uS/cm	<2.0	2.0	C067805
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	C070164
pH	pH	5.87	N/A	C067808
Total Suspended Solids	mg/L	<1.0	1.0	C068341
Anions				
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	C067794
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	C067794
Bicarbonate (HCO3)	mg/L	<1.0	1.0	C067794
Carbonate (CO3)	mg/L	<1.0	1.0	C067794
Dissolved Fluoride (F)	mg/L	<0.050	0.050	C068104
Hydroxide (OH)	mg/L	<1.0	1.0	C067794
Chloride (Cl)	mg/L	<1.0	1.0	C067707
Sulphate (SO4)	mg/L	<1.0	1.0	C067707
Nutrients				
Total Ammonia (N)	mg/L	<0.015	0.015	C067796
Orthophosphate (P)	mg/L	<0.0030	0.0030	C065875
Dissolved Phosphorus (P)	mg/L	<0.0030	0.0030	C069917
Total Phosphorus (P)	mg/L	<0.0030	0.0030	C069874
Nitrate plus Nitrite (N)	mg/L	<0.020	0.020	C066542
Total Nitrogen (N)	mg/L	<0.020	0.020	C070611

RDL = Reportable Detection Limit
N/A = Not Applicable

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MERCURY BY COLD VAPOR (SURFACE WATER)

Bureau Veritas ID		DRS062	DRS063	DRS064	DRS065	DRS066	DRS067		
Sampling Date		2025/08/24 09:40	2025/08/22 17:00	2025/08/23 16:30	2025/08/23 12:20	2025/08/24 13:30	2025/08/24 09:10		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	W10/TUL-00	TUL-06/SW16-3	SW21-2	SW24-2	TUL-03	TUL-05	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C067518
RDL = Reportable Detection Limit									

Bureau Veritas ID		DRS068	DRS069	DRS070	DRS071	DRS072	DRS073		
Sampling Date		2025/08/24 12:10	2025/08/21 17:30	2025/08/23 08:50	2025/08/23 09:15	2025/08/23 10:00	2025/08/23 15:20		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	W27	WTP Pond	SE-2	5200 Level Adit	5400 Level Adit	5900 Level Adit	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C067518
RDL = Reportable Detection Limit									

Bureau Veritas ID		DRS074	DRS075	DRS076	DRS077	DRS078	DRS079		
Sampling Date		2025/08/23 15:00	2025/08/23 11:30	2025/08/23 14:00	2025/08/24 08:40	2025/08/22 15:20	2025/08/21 17:10		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	6400 Seep	CC-02	CC-04	SW24-1	SW24-11	W11	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C067518
RDL = Reportable Detection Limit									

Bureau Veritas ID		DRS080	DRS081		DRS082	DRS083	DRS084	DRS085		
Sampling Date		2025/08/22 15:40	2025/08/22 16:20		2025/08/24 08:50	2025/08/21 13:50	2025/08/21 12:50	2025/08/21 15:20		
COC Number		112020	112020		112020	112020	112020	112020		
	UNITS	W44	W45	QC Batch	W46/SW21-4	SW16-8	SW21-5	SW24-4	RDL	QC Batch
Elements										
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	C067518	<0.0019	<0.0019	0.0056	<0.0019	0.0019	C070462
RDL = Reportable Detection Limit										

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MERCURY BY COLD VAPOR (SURFACE WATER)

Bureau Veritas ID		DRS086	DRS087	DRS088	DRS089	DRS090	DRS091		
Sampling Date		2025/08/22 14:20	2025/08/22 09:40	2025/08/22 11:10	2025/08/22 12:30	2025/08/22 13:20	2025/08/22 13:40		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	TUL-09/W51	SW24-6	SW24-7	SW24-8	SW24-10	TUL-12	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C070462
RDL = Reportable Detection Limit									

Bureau Veritas ID		DRS092	DRS093	DRS094	DRS095	DRS096	DRS097		
Sampling Date		2025/08/22 11:30	2025/08/22 09:45	2025/08/22 15:20	2025/08/23 10:00	2025/08/24 08:40	2025/08/22 10:00		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	W32/TUL-15	25-08-DUP02	25-08-DUP03	25-08-DUP04	25-08-DUP05	25-08-FB02	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C070462
RDL = Reportable Detection Limit									

Bureau Veritas ID		DRS098	DRS099	DRS100		
Sampling Date		2025/08/23 10:10	2025/08/24 12:30	2025/08/25 14:00		
COC Number		112020	112020	112020		
	UNITS	25-08-FB03	25-08-FB04	25-08-TB02	RDL	QC Batch
Elements						
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	0.0019	C070462
RDL = Reportable Detection Limit						

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL TOTAL METALS IN WATER (SURFACE WATER)

Bureau Veritas ID		DRS063	DRS064	DRS066	DRS067			DRS097		
Sampling Date		2025/08/22 17:00	2025/08/23 16:30	2025/08/24 13:30	2025/08/24 09:10			2025/08/22 10:00		
COC Number		112020	112020	112020	112020			112020		
	UNITS	TUL-06/SW16-3	SW21-2	TUL-03	TUL-05	RDL	QC Batch	25-08-FB02	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	31.5	25.1	36.1	36.6	0.50	C064904	<0.50	0.50	C064904
Elements										
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C067476	<0.0019	0.0019	C071964
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L							<0.50	0.50	C073852
Total Antimony (Sb)	ug/L							<0.020	0.020	C073852
Total Arsenic (As)	ug/L							<0.020	0.020	C073852
Total Barium (Ba)	ug/L							<0.020	0.020	C073852
Total Beryllium (Be)	ug/L							<0.010	0.010	C073852
Total Bismuth (Bi)	ug/L							<0.0050	0.0050	C073852
Total Boron (B)	ug/L							<10	10	C073852
Total Cadmium (Cd)	ug/L							<0.0050	0.0050	C073852
Total Chromium (Cr)	ug/L							<0.10	0.10	C073852
Total Cobalt (Co)	ug/L							<0.0050	0.0050	C073852
Total Copper (Cu)	ug/L							<0.050	0.050	C073852
Total Iron (Fe)	ug/L							<1.0	1.0	C073852
Total Lead (Pb)	ug/L							<0.0050	0.0050	C073852
Total Lithium (Li)	ug/L							<0.50	0.50	C073852
Total Manganese (Mn)	ug/L							<0.050	0.050	C073852
Total Molybdenum (Mo)	ug/L							<0.050	0.050	C073852
Total Nickel (Ni)	ug/L							<0.020	0.020	C073852
Total Selenium (Se)	ug/L							<0.040	0.040	C073852
Total Silicon (Si)	ug/L							<50	50	C073852
Total Silver (Ag)	ug/L							<0.0050	0.0050	C073852
Total Strontium (Sr)	ug/L							0.055	0.050	C073852
Total Thallium (Tl)	ug/L							<0.0020	0.0020	C073852
Total Tin (Sn)	ug/L							<0.20	0.20	C073852
Total Titanium (Ti)	ug/L							<0.50	0.50	C073852
Total Uranium (U)	ug/L							<0.0020	0.0020	C073852
Total Vanadium (V)	ug/L							<0.20	0.20	C073852
Total Zinc (Zn)	ug/L							<0.10	0.10	C073852

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL TOTAL METALS IN WATER (SURFACE WATER)

Bureau Veritas ID		DRS063	DRS064	DRS066	DRS067			DRS097		
Sampling Date		2025/08/22 17:00	2025/08/23 16:30	2025/08/24 13:30	2025/08/24 09:10			2025/08/22 10:00		
COC Number		112020	112020	112020	112020			112020		
	UNITS	**TUL-06/SW16-3**	**SW21-2**	**TUL-03**	**TUL-05**	**RDL**	**QC Batch**	**25-08-FB02**	**RDL**	**QC Batch**
Total Zirconium (Zr)	ug/L							<0.10	0.10	C073852
Total Calcium (Ca)	mg/L	8.48	6.05	9.77	10.0	0.25	C070509	<0.050	0.050	C070509
Total Magnesium (Mg)	mg/L	2.49	2.43	2.85	2.79	0.25	C070509	<0.050	0.050	C070509
Total Potassium (K)	mg/L	1.33	0.86	2.07	2.04	0.25	C070509	<0.050	0.050	C070509
Total Sodium (Na)	mg/L	0.61	<0.25	1.13	1.12	0.25	C070509	<0.050	0.050	C070509
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	3.0	C070509	<3.0	3.0	C070509
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL TOTAL METALS IN WATER (SURFACE WATER)

Bureau Veritas ID		DRS098	DRS099	DRS100		
Sampling Date		2025/08/23 10:10	2025/08/24 12:30	2025/08/25 14:00		
COC Number		112020	112020	112020		
	UNITS	25-08-FB03	25-08-FB04	25-08-TB02	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	<0.50	<0.50	<0.50	0.50	C064904
Elements						
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	0.0019	C071964
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	<0.50	0.77	<0.50	0.50	C073852
Total Antimony (Sb)	ug/L	<0.020	<0.020	<0.020	0.020	C073852
Total Arsenic (As)	ug/L	<0.020	<0.020	<0.020	0.020	C073852
Total Barium (Ba)	ug/L	0.022	0.120	<0.020	0.020	C073852
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	C073852
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	C073852
Total Boron (B)	ug/L	<10	<10	<10	10	C073852
Total Cadmium (Cd)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	C073852
Total Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	0.10	C073852
Total Cobalt (Co)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	C073852
Total Copper (Cu)	ug/L	<0.050	<0.050	<0.050	0.050	C073852
Total Iron (Fe)	ug/L	<1.0	4.6	<1.0	1.0	C073852
Total Lead (Pb)	ug/L	<0.0050	0.0110	<0.0050	0.0050	C073852
Total Lithium (Li)	ug/L	<0.50	<0.50	<0.50	0.50	C073852
Total Manganese (Mn)	ug/L	<0.050	<0.050	<0.050	0.050	C073852
Total Molybdenum (Mo)	ug/L	<0.050	<0.050	<0.050	0.050	C073852
Total Nickel (Ni)	ug/L	<0.020	<0.020	<0.020	0.020	C073852
Total Selenium (Se)	ug/L	<0.040	<0.040	<0.040	0.040	C073852
Total Silicon (Si)	ug/L	<50	<50	<50	50	C073852
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	C073852
Total Strontium (Sr)	ug/L	<0.050	<0.050	<0.050	0.050	C073852
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	C073852
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	C073852
Total Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	0.50	C073852
Total Uranium (U)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	C073852
Total Vanadium (V)	ug/L	<0.20	<0.20	<0.20	0.20	C073852
Total Zinc (Zn)	ug/L	<0.10	0.16	<0.10	0.10	C073852

RDL = Reportable Detection Limit

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SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL TOTAL METALS IN WATER (SURFACE WATER)

Bureau Veritas ID		DRS098	DRS099	DRS100		
Sampling Date		2025/08/23 10:10	2025/08/24 12:30	2025/08/25 14:00		
COC Number		112020	112020	112020		
	UNITS	**25-08-FB03**	**25-08-FB04**	**25-08-TB02**	**RDL**	**QC Batch**
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	C073852
Total Calcium (Ca)	mg/L	<0.050	<0.050	<0.050	0.050	C070509
Total Magnesium (Mg)	mg/L	<0.050	<0.050	<0.050	0.050	C070509
Total Potassium (K)	mg/L	<0.050	<0.050	<0.050	0.050	C070509
Total Sodium (Na)	mg/L	<0.050	<0.050	<0.050	0.050	C070509
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	3.0	C070509
RDL = Reportable Detection Limit						

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS062	DRS063	DRS064	DRS065	DRS066	DRS067		
Sampling Date		2025/08/24 09:40	2025/08/22 17:00	2025/08/23 16:30	2025/08/23 12:20	2025/08/24 13:30	2025/08/24 09:10		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	W10/TUL-00	TUL-06/SW16-3	SW21-2	SW24-2	TUL-03	TUL-05	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	31.2	29.4	20.7	65.6	31.6	31.9	0.50	C064906
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	10.6	9.55	6.51	25.4	10.7	10.9	0.050	C064132
Dissolved Magnesium (Mg)	mg/L	1.17	1.34	1.07	0.533	1.21	1.17	0.050	C064132
Dissolved Potassium (K)	mg/L	0.874	0.752	0.502	0.390	0.873	0.898	0.050	C064132
Dissolved Sodium (Na)	mg/L	0.543	0.394	0.132	0.513	0.550	0.541	0.050	C064132
Dissolved Sulphur (S)	mg/L	3.3	3.3	<3.0	<3.0	3.4	3.6	3.0	C064132
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	59.4	24.8	12.4	12.7	49.1	52.2	0.50	C067366
Dissolved Antimony (Sb)	ug/L	0.092	0.054	0.024	0.967	0.087	0.102	0.020	C067366
Dissolved Arsenic (As)	ug/L	0.346	0.186	0.037	1.75	0.307	0.284	0.020	C067366
Dissolved Barium (Ba)	ug/L	15.8	25.2	29.5	9.50	16.2	16.8	0.020	C067366
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C067366
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067366
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C067366
Dissolved Cadmium (Cd)	ug/L	0.0093	0.0128	0.0121	0.0051	0.0076	0.0105	0.0050	C067366
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C067366
Dissolved Cobalt (Co)	ug/L	0.0265	0.0600	0.0693	0.0101	0.0311	0.0346	0.0050	C067366
Dissolved Copper (Cu)	ug/L	0.138	0.392	0.157	0.228	0.139	0.137	0.050	C067366
Dissolved Iron (Fe)	ug/L	10.5	8.7	10.1	<1.0	8.7	9.6	1.0	C067366
Dissolved Lead (Pb)	ug/L	0.0206	0.0173	0.0076	<0.0050	0.0211	0.0210	0.0050	C067366
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C067366
Dissolved Manganese (Mn)	ug/L	2.59	6.83	12.1	0.053	3.31	3.05	0.050	C067366
Dissolved Molybdenum (Mo)	ug/L	1.93	1.41	0.679	0.193	2.08	2.05	0.050	C067366
Dissolved Nickel (Ni)	ug/L	0.224	0.595	0.884	0.057	0.216	0.212	0.020	C067366
Dissolved Selenium (Se)	ug/L	0.123	0.150	0.113	0.064	0.112	0.112	0.040	C067366
Dissolved Silicon (Si)	ug/L	761	692	297	1500	776	781	50	C067366
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067366
Dissolved Strontium (Sr)	ug/L	47.0	37.8	22.8	43.1	47.4	47.2	0.050	C067366
Dissolved Thallium (Tl)	ug/L	0.0049	0.0046	0.0062	<0.0020	0.0038	0.0052	0.0020	C067366

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS062	DRS063	DRS064	DRS065	DRS066	DRS067		
Sampling Date		2025/08/24 09:40	2025/08/22 17:00	2025/08/23 16:30	2025/08/23 12:20	2025/08/24 13:30	2025/08/24 09:10		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	**W10/TUL-00**	**TUL-06/SW16-3**	**SW21-2**	**SW24-2**	**TUL-03**	**TUL-05**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C067366
Dissolved Titanium (Ti)	ug/L	0.89	0.52	<0.50	<0.50	0.55	0.76	0.50	C067366
Dissolved Uranium (U)	ug/L	0.240	0.0747	0.0290	0.0562	0.232	0.226	0.0020	C067366
Dissolved Vanadium (V)	ug/L	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C067366
Dissolved Zinc (Zn)	ug/L	0.14	0.47	0.27	0.69	0.22	0.25	0.10	C067366
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C067366
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS068	DRS069		DRS070		DRS071		
Sampling Date		2025/08/24 12:10	2025/08/21 17:30		2025/08/23 08:50		2025/08/23 09:15		
COC Number		112020	112020		112020		112020		
	UNITS	W27	WTP Pond	RDL	SE-2	RDL	5200 Level Adit	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	79.1	251	0.50	186	0.50	414	0.50	C064906
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	27.2	91.4	0.050	63.9	0.50	138	1.0	C064132
Dissolved Magnesium (Mg)	mg/L	2.74	5.60	0.050	6.42	0.50	16.6	1.0	C064132
Dissolved Potassium (K)	mg/L	0.340	1.13	0.050	0.78	0.50	1.1	1.0	C064132
Dissolved Sodium (Na)	mg/L	0.677	2.09	0.050	4.90	0.50	4.4	1.0	C064132
Dissolved Sulphur (S)	mg/L	10.1	59.4	3.0	96	30	254	60	C064132
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	10.6	11.7	0.50	7530	5.0	25500	10	C067366
Dissolved Antimony (Sb)	ug/L	0.412	10.3	0.020	0.33	0.20	<0.40	0.40	C067366
Dissolved Arsenic (As)	ug/L	0.811	0.554	0.020	<0.20	0.20	3.83	0.40	C067366
Dissolved Barium (Ba)	ug/L	18.8	23.2	0.020	25.4	0.20	17.3	0.40	C067366
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.010	0.28	0.10	0.52	0.20	C067366
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	<0.050	0.050	<0.10	0.10	C067366
Dissolved Boron (B)	ug/L	<10	<10	10	<100	100	<200	200	C067366
Dissolved Cadmium (Cd)	ug/L	0.0206	5.92	0.0050	163	0.050	370	0.10	C067366
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	0.10	<1.0	1.0	4.4	2.0	C067366
Dissolved Cobalt (Co)	ug/L	0.0704	0.586	0.0050	4.77	0.050	11.9	0.10	C067366
Dissolved Copper (Cu)	ug/L	0.146	15.5	0.050	7730	0.50	21900	1.0	C067366
Dissolved Iron (Fe)	ug/L	8.3	11.1	1.0	1030	10	26500	20	C067366
Dissolved Lead (Pb)	ug/L	<0.0050	0.0114	0.0050	100	0.050	224	0.10	C067366
Dissolved Lithium (Li)	ug/L	1.39	5.17	0.50	11.9	5.0	24	10	C067366
Dissolved Manganese (Mn)	ug/L	18.8	37.0	0.050	304	0.50	462	1.0	C067366
Dissolved Molybdenum (Mo)	ug/L	2.99	0.466	0.050	<0.50	0.50	<1.0	1.0	C067366
Dissolved Nickel (Ni)	ug/L	1.28	2.30	0.020	7.05	0.20	12.9	0.40	C067366
Dissolved Selenium (Se)	ug/L	0.248	0.080	0.040	<0.40	0.40	<0.80	0.80	C067366
Dissolved Silicon (Si)	ug/L	1260	3240	50	6930	500	9970	1000	C067366
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	0.062	0.050	0.12	0.10	C067366
Dissolved Strontium (Sr)	ug/L	181	212	0.050	265	0.50	686	1.0	C067366
Dissolved Thallium (Tl)	ug/L	0.0083	0.0093	0.0020	0.274	0.020	1.04	0.040	C067366

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS068	DRS069		DRS070		DRS071		
Sampling Date		2025/08/24 12:10	2025/08/21 17:30		2025/08/23 08:50		2025/08/23 09:15		
COC Number		112020	112020		112020		112020		
	UNITS	W27	WTP Pond	RDL	SE-2	RDL	5200 Level Adit	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	<2.0	2.0	<4.0	4.0	C067366
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	0.50	<5.0	5.0	<10	10	C067366
Dissolved Uranium (U)	ug/L	0.658	0.106	0.0020	3.89	0.020	15.3	0.040	C067366
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	0.20	<2.0	2.0	<4.0	4.0	C067366
Dissolved Zinc (Zn)	ug/L	0.20	899	0.10	40100	1.0	89100	2.0	C067366
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	<1.0	1.0	<2.0	2.0	C067366
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS072		DRS073	DRS074		DRS075		
Sampling Date		2025/08/23 10:00		2025/08/23 15:20	2025/08/23 15:00		2025/08/23 11:30		
COC Number		112020		112020	112020		112020		
	UNITS	5400 Level Adit	RDL	5900 Level Adit	6400 Seep	QC Batch	CC-02	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	144	0.50	152	66.7	C064906	63.2	0.50	C064906
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	50.7	0.25	55.8	25.9	C064132	24.4	0.050	C064132
Dissolved Magnesium (Mg)	mg/L	4.22	0.25	3.08	0.520	C064132	0.563	0.050	C064132
Dissolved Potassium (K)	mg/L	0.57	0.25	0.773	0.293	C064132	0.296	0.050	C064132
Dissolved Sodium (Na)	mg/L	5.20	0.25	1.50	0.676	C064132	0.682	0.050	C064132
Dissolved Sulphur (S)	mg/L	64	15	29.1	<3.0	C064132	<3.0	3.0	C064132
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	3510	2.5	38.6	41.1	C067366	21.2	0.50	C067410
Dissolved Antimony (Sb)	ug/L	0.45	0.10	1.68	0.704	C067366	0.841	0.020	C067410
Dissolved Arsenic (As)	ug/L	0.22	0.10	0.139	0.615	C067366	1.44	0.020	C067410
Dissolved Barium (Ba)	ug/L	30.0	0.10	30.3	14.4	C067366	14.7	0.020	C067410
Dissolved Beryllium (Be)	ug/L	0.153	0.050	<0.010	<0.010	C067366	<0.010	0.010	C067410
Dissolved Bismuth (Bi)	ug/L	<0.025	0.025	<0.0050	<0.0050	C067366	<0.0050	0.0050	C067410
Dissolved Boron (B)	ug/L	<50	50	<10	<10	C067366	<10	10	C067410
Dissolved Cadmium (Cd)	ug/L	145	0.025	4.70	0.892	C067366	0.362	0.0050	C067410
Dissolved Chromium (Cr)	ug/L	<0.50	0.50	<0.10	<0.10	C067366	<0.10	0.10	C067410
Dissolved Cobalt (Co)	ug/L	2.67	0.025	5.30	0.0573	C067366	0.0181	0.0050	C067410
Dissolved Copper (Cu)	ug/L	5960	0.25	4.29	13.8	C067366	7.06	0.050	C067410
Dissolved Iron (Fe)	ug/L	44.5	5.0	15.4	73.9	C067366	5.9	1.0	C067410
Dissolved Lead (Pb)	ug/L	59.8	0.025	0.0185	0.0472	C067366	0.196	0.0050	C067410
Dissolved Lithium (Li)	ug/L	8.4	2.5	2.23	<0.50	C067366	<0.50	0.50	C067410
Dissolved Manganese (Mn)	ug/L	251	0.25	75.2	3.05	C067366	0.718	0.050	C067410
Dissolved Molybdenum (Mo)	ug/L	<0.25	0.25	0.434	0.165	C067366	0.190	0.050	C067410
Dissolved Nickel (Ni)	ug/L	4.62	0.10	3.07	0.116	C067366	0.077	0.020	C067410
Dissolved Selenium (Se)	ug/L	0.25	0.20	0.194	0.123	C067366	0.127	0.040	C067410
Dissolved Silicon (Si)	ug/L	4460	250	3590	1950	C067366	1910	50	C067410
Dissolved Silver (Ag)	ug/L	0.029	0.025	<0.0050	<0.0050	C067366	<0.0050	0.0050	C067410
Dissolved Strontium (Sr)	ug/L	187	0.25	188	50.6	C067366	52.7	0.050	C067410
Dissolved Thallium (Tl)	ug/L	0.125	0.010	0.0169	0.0088	C067366	0.0026	0.0020	C067410

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS072		DRS073	DRS074		DRS075		
Sampling Date		2025/08/23 10:00		2025/08/23 15:20	2025/08/23 15:00		2025/08/23 11:30		
COC Number		112020		112020	112020		112020		
	UNITS	**5400 Level Adit**	**RDL**	**5900 Level Adit**	**6400 Seep**	**QC Batch**	**CC-02**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<0.20	<0.20	C067366	<0.20	0.20	C067410
Dissolved Titanium (Ti)	ug/L	<2.5	2.5	<0.50	<0.50	C067366	<0.50	0.50	C067410
Dissolved Uranium (U)	ug/L	2.20	0.010	0.206	0.0678	C067366	0.0762	0.0020	C067410
Dissolved Vanadium (V)	ug/L	<1.0	1.0	<0.20	<0.20	C067366	<0.20	0.20	C067410
Dissolved Zinc (Zn)	ug/L	34800	0.50	1350	164	C067366	61.1	0.10	C067410
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	<0.10	<0.10	C067366	<0.10	0.10	C067410
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS076	DRS077	DRS078		DRS079		DRS080		
Sampling Date		2025/08/23 14:00	2025/08/24 08:40	2025/08/22 15:20		2025/08/21 17:10		2025/08/22 15:40		
COC Number		112020	112020	112020		112020		112020		
	UNITS	CC-04	SW24-1	SW24-11	RDL	W11	RDL	W44	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	68.2	32.7	38.3	0.50	115	0.50	93.5	0.50	C064906
Dissolved Metals by ICPMS										
Dissolved Calcium (Ca)	mg/L	26.6	11.1	13.0	0.050	39.6	0.10	32.3	0.050	C064132
Dissolved Magnesium (Mg)	mg/L	0.462	1.22	1.39	0.050	4.01	0.10	3.15	0.050	C064132
Dissolved Potassium (K)	mg/L	0.215	0.916	0.852	0.050	1.01	0.10	2.01	0.050	C064132
Dissolved Sodium (Na)	mg/L	0.631	0.582	0.575	0.050	2.35	0.10	1.44	0.050	C064132
Dissolved Sulphur (S)	mg/L	<3.0	3.8	3.8	3.0	42.5	6.0	7.8	3.0	C064132
Lab Filtered Metals										
Dissolved Aluminum (Al)	ug/L	12.8	48.3	39.9	0.50	183	1.0	2.21	0.50	C067366
Dissolved Antimony (Sb)	ug/L	0.562	0.097	0.137	0.020	0.315	0.040	0.145	0.020	C067366
Dissolved Arsenic (As)	ug/L	1.21	0.330	0.370	0.020	<0.040	0.040	0.240	0.020	C067366
Dissolved Barium (Ba)	ug/L	9.08	17.3	17.4	0.020	29.5	0.040	61.2	0.020	C067366
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	0.056	0.020	<0.010	0.010	C067366
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	<0.010	0.010	<0.0050	0.0050	C067366
Dissolved Boron (B)	ug/L	<10	<10	<10	10	<20	20	<10	10	C067366
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0100	0.0089	0.0050	58.1	0.010	0.0072	0.0050	C067366
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	0.10	<0.20	0.20	0.12	0.10	C067366
Dissolved Cobalt (Co)	ug/L	0.0060	0.0331	0.0335	0.0050	2.19	0.010	0.0086	0.0050	C067366
Dissolved Copper (Cu)	ug/L	0.165	0.145	0.135	0.050	2570	0.10	0.163	0.050	C067366
Dissolved Iron (Fe)	ug/L	<1.0	8.4	5.5	1.0	73.7	2.0	<1.0	1.0	C067366
Dissolved Lead (Pb)	ug/L	<0.0050	0.0177	0.0115	0.0050	14.3	0.010	<0.0050	0.0050	C067366
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	0.50	4.8	1.0	0.87	0.50	C067366
Dissolved Manganese (Mn)	ug/L	0.074	2.58	3.97	0.050	128	0.10	0.503	0.050	C067366
Dissolved Molybdenum (Mo)	ug/L	0.155	2.08	2.29	0.050	0.32	0.10	3.16	0.050	C067366
Dissolved Nickel (Ni)	ug/L	0.036	0.218	0.286	0.020	4.23	0.040	0.314	0.020	C067366
Dissolved Selenium (Se)	ug/L	0.176	0.142	0.126	0.040	0.174	0.080	0.612	0.040	C067366
Dissolved Silicon (Si)	ug/L	1320	809	870	50	3960	100	2270	50	C067366
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	0.016	0.010	<0.0050	0.0050	C067366
Dissolved Strontium (Sr)	ug/L	49.8	49.0	62.1	0.050	164	0.10	112	0.050	C067366
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0044	0.0044	0.0020	0.112	0.0040	<0.0020	0.0020	C067366

RDL = Reportable Detection Limit

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LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS076	DRS077	DRS078		DRS079		DRS080		
Sampling Date		2025/08/23 14:00	2025/08/24 08:40	2025/08/22 15:20		2025/08/21 17:10		2025/08/22 15:40		
COC Number		112020	112020	112020		112020		112020		
	UNITS	CC-04	SW24-1	SW24-11	RDL	W11	RDL	W44	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	<0.40	0.40	<0.20	0.20	C067366
Dissolved Titanium (Ti)	ug/L	<0.50	0.75	<0.50	0.50	<1.0	1.0	<0.50	0.50	C067366
Dissolved Uranium (U)	ug/L	0.0877	0.247	0.295	0.0020	0.759	0.0040	0.612	0.0020	C067366
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	0.20	<0.40	0.40	<0.20	0.20	C067366
Dissolved Zinc (Zn)	ug/L	1.11	0.23	0.12	0.10	14000	0.20	4.32	0.10	C067366
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	<0.20	0.20	<0.10	0.10	C067366
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS081	DRS082	DRS083	DRS084	DRS085	DRS086		
Sampling Date		2025/08/22 16:20	2025/08/24 08:50	2025/08/21 13:50	2025/08/21 12:50	2025/08/21 15:20	2025/08/22 14:20		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	W45	W46/SW21-4	SW16-8	SW21-5	SW24-4	TUL-09/W51	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	91.2	36.1	68.8	42.4	53.3	36.6	0.50	C064906
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	31.3	12.2	25.7	15.3	18.5	12.4	0.050	C064132
Dissolved Magnesium (Mg)	mg/L	3.16	1.35	1.09	0.989	1.72	1.41	0.050	C064132
Dissolved Potassium (K)	mg/L	1.91	0.857	0.606	0.181	1.14	0.882	0.050	C064132
Dissolved Sodium (Na)	mg/L	1.24	0.574	0.736	0.376	1.54	0.588	0.050	C064132
Dissolved Sulphur (S)	mg/L	7.4	3.9	<3.0	<3.0	5.7	3.9	3.0	C064132
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	2.25	46.1	9.44	22.7	27.9	39.0	0.50	C067384
Dissolved Antimony (Sb)	ug/L	0.136	0.131	0.451	0.263	0.268	0.122	0.020	C067384
Dissolved Arsenic (As)	ug/L	0.241	0.388	0.625	1.75	0.511	0.326	0.020	C067384
Dissolved Barium (Ba)	ug/L	62.0	17.5	36.5	11.3	26.9	18.7	0.020	C067384
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C067384
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067384
Dissolved Boron (B)	ug/L	<10	<10	<10 (1)	<10	<10	<10	10	C067384
Dissolved Cadmium (Cd)	ug/L	0.0080	0.0073	0.148	<0.0050	0.816	0.0084	0.0050	C067384
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C067384
Dissolved Cobalt (Co)	ug/L	0.0203	0.0343	0.0181	0.0058	0.0312	0.0289	0.0050	C067384
Dissolved Copper (Cu)	ug/L	0.254	0.119	2.17	0.152	5.42	0.132	0.050	C067384
Dissolved Iron (Fe)	ug/L	5.0	7.6	2.1	1.4	<1.0	6.3	1.0	C067384
Dissolved Lead (Pb)	ug/L	<0.0050	0.0171	0.0063	<0.0050	0.0247	0.0142	0.0050	C067384
Dissolved Lithium (Li)	ug/L	1.01	0.58	0.51	<0.50	0.72	<0.50	0.50	C067384
Dissolved Manganese (Mn)	ug/L	1.05	3.81	0.655	1.60	1.41	3.72	0.050	C067384
Dissolved Molybdenum (Mo)	ug/L	2.35	2.24	0.473	0.515	3.24	2.16	0.050	C067384
Dissolved Nickel (Ni)	ug/L	0.407	0.251	0.161	0.035	0.206	0.290	0.020	C067384
Dissolved Selenium (Se)	ug/L	0.375	0.134	0.185	0.131	0.251	0.160	0.040	C067384
Dissolved Silicon (Si)	ug/L	2410	842	2390	620	1380	863	50	C067384
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067384
Dissolved Strontium (Sr)	ug/L	110	60.1	58.0	54.6	82.0	57.3	0.050	C067384

RDL = Reportable Detection Limit
(1) Matrix Spike outside acceptance criteria due to sample matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS081	DRS082	DRS083	DRS084	DRS085	DRS086		
Sampling Date		2025/08/22 16:20	2025/08/24 08:50	2025/08/21 13:50	2025/08/21 12:50	2025/08/21 15:20	2025/08/22 14:20		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	**W45**	**W46/SW21-4**	**SW16-8**	**SW21-5**	**SW24-4**	**TUL-09/W51**	**RDL**	**QC Batch**
Dissolved Thallium (Tl)	ug/L	0.0027	0.0044	0.0052	<0.0020	0.0095	0.0046	0.0020	C067384
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C067384
Dissolved Titanium (Ti)	ug/L	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	0.50	C067384
Dissolved Uranium (U)	ug/L	0.363	0.277	0.138	0.186	0.153	0.277	0.0020	C067384
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C067384
Dissolved Zinc (Zn)	ug/L	3.35	<0.10	6.88	5.03	140	<0.10	0.10	C067384
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C067384
RDL = Reportable Detection Limit									

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS087	DRS088		DRS089		DRS090	DRS091		
Sampling Date		2025/08/22 09:40	2025/08/22 11:10		2025/08/22 12:30		2025/08/22 13:20	2025/08/22 13:40		
COC Number		112020	112020		112020		112020	112020		
	UNITS	SW24-6	SW24-7	QC Batch	SW24-8	QC Batch	SW24-10	TUL-12	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	37.7	37.3	C064906	79.3	C064906	40.2	51.7	0.50	C064906
Dissolved Metals by ICPMS										
Dissolved Calcium (Ca)	mg/L	12.8	12.7	C064132	26.7	C064132	13.7	18.5	0.050	C064132
Dissolved Magnesium (Mg)	mg/L	1.42	1.37	C064132	3.07	C064132	1.46	1.30	0.050	C064132
Dissolved Potassium (K)	mg/L	0.917	0.864	C064132	1.91	C064132	0.884	0.586	0.050	C064132
Dissolved Sodium (Na)	mg/L	0.682	0.599	C064132	2.47	C064132	0.622	0.653	0.050	C064132
Dissolved Sulphur (S)	mg/L	4.2	3.8	C064132	7.0	C064132	4.4	3.6	3.0	C064132
Lab Filtered Metals										
Dissolved Aluminum (Al)	ug/L	37.7	43.2	C067384	3.14	C067468	44.1	25.6	0.50	C067384
Dissolved Antimony (Sb)	ug/L	0.119	0.137	C067384	0.134	C067468	0.140	0.287	0.020	C067384
Dissolved Arsenic (As)	ug/L	0.388	0.385	C067384	0.265	C067468	0.390	1.33	0.020	C067384
Dissolved Barium (Ba)	ug/L	20.1	18.2	C067384	59.8	C067468	18.7	20.5	0.020	C067384
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	C067384	<0.010	C067468	<0.010	<0.010	0.010	C067384
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	C067384	<0.0050	C067468	<0.0050	<0.0050	0.0050	C067384
Dissolved Boron (B)	ug/L	<10	<10	C067384	<10	C067468	<10	<10	10	C067384
Dissolved Cadmium (Cd)	ug/L	0.0151	0.0119	C067384	0.0117	C067468	0.0112	0.113	0.0050	C067384
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	C067384	<0.10	C067468	<0.10	<0.10	0.10	C067384
Dissolved Cobalt (Co)	ug/L	0.0432	0.0348	C067384	0.0118	C067468	0.0288	0.0083	0.0050	C067384
Dissolved Copper (Cu)	ug/L	0.142	0.160	C067384	0.382	C067468	0.134	1.23	0.050	C067384
Dissolved Iron (Fe)	ug/L	6.4	7.8	C067384	1.4	C067468	7.3	<1.0	1.0	C067384
Dissolved Lead (Pb)	ug/L	0.0146	0.0170	C067384	<0.0050	C067468	0.0149	<0.0050	0.0050	C067384
Dissolved Lithium (Li)	ug/L	0.52	<0.50	C067384	0.74	C067468	<0.50	0.50	0.50	C067384
Dissolved Manganese (Mn)	ug/L	3.93	4.44	C067384	0.424	C067468	3.95	1.01	0.050	C067384
Dissolved Molybdenum (Mo)	ug/L	2.27	2.13	C067384	2.73	C067468	2.32	1.40	0.050	C067384
Dissolved Nickel (Ni)	ug/L	0.305	0.300	C067384	0.460	C067468	0.273	0.075	0.020	C067384
Dissolved Selenium (Se)	ug/L	0.163	0.144	C067384	0.384	C067468	0.160	0.190	0.040	C067384
Dissolved Silicon (Si)	ug/L	908	887	C067384	2300	C067468	937	980	50	C067384
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	C067384	<0.0050	C067468	<0.0050	<0.0050	0.0050	C067384
Dissolved Strontium (Sr)	ug/L	58.6	59.1	C067384	106	C067468	62.6	67.7	0.050	C067384
Dissolved Thallium (Tl)	ug/L	0.0058	0.0058	C067384	0.0031	C067468	0.0060	0.0042	0.0020	C067384

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS087	DRS088		DRS089		DRS090	DRS091		
Sampling Date		2025/08/22 09:40	2025/08/22 11:10		2025/08/22 12:30		2025/08/22 13:20	2025/08/22 13:40		
COC Number		112020	112020		112020		112020	112020		
	UNITS	SW24-6	SW24-7	QC Batch	SW24-8	QC Batch	SW24-10	TUL-12	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	C067384	<0.20	C067468	<0.20	<0.20	0.20	C067384
Dissolved Titanium (Ti)	ug/L	0.56	0.60	C067384	<0.50	C067468	0.58	<0.50	0.50	C067384
Dissolved Uranium (U)	ug/L	0.277	0.287	C067384	0.405	C067468	0.310	0.271	0.0020	C067384
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	C067384	<0.20	C067468	<0.20	<0.20	0.20	C067384
Dissolved Zinc (Zn)	ug/L	0.41	0.18	C067384	0.98	C067468	0.17	18.0	0.10	C067384
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	C067384	<0.10	C067468	<0.10	<0.10	0.10	C067384
RDL = Reportable Detection Limit										

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS092	DRS093	DRS094		DRS095		DRS096		
Sampling Date		2025/08/22 11:30	2025/08/22 09:45	2025/08/22 15:20		2025/08/23 10:00		2025/08/24 08:40		
COC Number		112020	112020	112020		112020		112020		
	UNITS	W32/TUL-15	25-08-DUP02	25-08-DUP03	RDL	25-08-DUP04	RDL	25-08-DUP05	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	37.5	37.7	37.3	0.50	147	0.50	32.2	0.50	C064906
Dissolved Metals by ICPMS										
Dissolved Calcium (Ca)	mg/L	12.8	12.8	12.7	0.050	51.5	0.25	10.8	0.050	C064132
Dissolved Magnesium (Mg)	mg/L	1.36	1.40	1.37	0.050	4.42	0.25	1.25	0.050	C064132
Dissolved Potassium (K)	mg/L	0.873	0.904	0.860	0.050	0.62	0.25	0.898	0.050	C064132
Dissolved Sodium (Na)	mg/L	0.595	0.667	0.586	0.050	5.34	0.25	0.574	0.050	C064132
Dissolved Sulphur (S)	mg/L	4.0	3.8	4.2	3.0	67	15	3.5	3.0	C064132
Lab Filtered Metals										
Dissolved Aluminum (Al)	ug/L	44.1	38.8	43.6	0.50	3610	2.5	44.1	0.50	C067384
Dissolved Antimony (Sb)	ug/L	0.166	0.112	0.135	0.020	0.54	0.10	0.100	0.020	C067384
Dissolved Arsenic (As)	ug/L	0.391	0.321	0.375	0.020	0.40	0.10	0.312	0.020	C067384
Dissolved Barium (Ba)	ug/L	18.6	19.9	17.7	0.020	31.0	0.10	17.5	0.020	C067384
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	0.203	0.050	<0.010	0.010	C067384
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	<0.025	0.025	<0.0050	0.0050	C067384
Dissolved Boron (B)	ug/L	<10	<10	<10	10	<50	50	<10	10	C067384
Dissolved Cadmium (Cd)	ug/L	0.0094	0.0106	0.0095	0.0050	155	0.025	0.0099	0.0050	C067384
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	0.10	<0.50	0.50	<0.10	0.10	C067384
Dissolved Cobalt (Co)	ug/L	0.0365	0.0363	0.0325	0.0050	2.77	0.025	0.0324	0.0050	C067384
Dissolved Copper (Cu)	ug/L	0.144	0.131	0.149	0.050	6250	0.25	0.131	0.050	C067384
Dissolved Iron (Fe)	ug/L	8.2	8.1	8.4	1.0	48.0	5.0	6.2	1.0	C067384
Dissolved Lead (Pb)	ug/L	0.0151	0.0167	0.0183	0.0050	64.8	0.025	0.0104	0.0050	C067384
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	0.54	0.50	9.1	2.5	<0.50	0.50	C067384
Dissolved Manganese (Mn)	ug/L	4.09	3.86	4.05	0.050	259	0.25	2.84	0.050	C067384
Dissolved Molybdenum (Mo)	ug/L	2.13	2.21	2.25	0.050	<0.25	0.25	2.13	0.050	C067384
Dissolved Nickel (Ni)	ug/L	0.262	0.291	0.299	0.020	4.81	0.10	0.194	0.020	C067384
Dissolved Selenium (Se)	ug/L	0.148	0.171	0.131	0.040	0.27	0.20	0.120	0.040	C067384
Dissolved Silicon (Si)	ug/L	878	922	873	50	4610	250	807	50	C067384
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	0.026	0.025	<0.0050	0.0050	C067384
Dissolved Strontium (Sr)	ug/L	59.8	57.8	62.5	0.050	198	0.25	49.8	0.050	C067384
Dissolved Thallium (Tl)	ug/L	0.0052	0.0049	0.0050	0.0020	0.138	0.010	0.0041	0.0020	C067384

RDL = Reportable Detection Limit

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SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS092	DRS093	DRS094		DRS095		DRS096		
Sampling Date		2025/08/22 11:30	2025/08/22 09:45	2025/08/22 15:20		2025/08/23 10:00		2025/08/24 08:40		
COC Number		112020	112020	112020		112020		112020		
	UNITS	**W32/TUL-15**	**25-08-DUP02**	**25-08-DUP03**	**RDL**	**25-08-DUP04**	**RDL**	**25-08-DUP05**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	<1.0	1.0	<0.20	0.20	C067384
Dissolved Titanium (Ti)	ug/L	0.56	0.60	0.69	0.50	<2.5	2.5	<0.50	0.50	C067384
Dissolved Uranium (U)	ug/L	0.290	0.268	0.282	0.0020	2.25	0.010	0.218	0.0020	C067384
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	0.20	<1.0	1.0	<0.20	0.20	C067384
Dissolved Zinc (Zn)	ug/L	0.18	0.16	0.13	0.10	36800	0.50	0.17	0.10	C067384
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	<0.50	0.50	<0.10	0.10	C067384
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS097	DRS098	DRS099	DRS100		
Sampling Date		2025/08/22 10:00	2025/08/23 10:10	2025/08/24 12:30	2025/08/25 14:00		
COC Number		112020	112020	112020	112020		
	UNITS	25-08-FB02	25-08-FB03	25-08-FB04	25-08-TB02	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50	C064906
Dissolved Metals by ICPMS							
Dissolved Calcium (Ca)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C064132
Dissolved Magnesium (Mg)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C064132
Dissolved Potassium (K)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C064132
Dissolved Sodium (Na)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C064132
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	3.0	C064132
Lab Filtered Metals							
Dissolved Aluminum (Al)	ug/L	0.57	1.03	<0.50	<0.50	0.50	C067384
Dissolved Antimony (Sb)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C067384
Dissolved Arsenic (As)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C067384
Dissolved Barium (Ba)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C067384
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	C067384
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067384
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	C067384
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067384
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	C067384
Dissolved Cobalt (Co)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067384
Dissolved Copper (Cu)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	C067384
Dissolved Iron (Fe)	ug/L	<1.0	1.2	<1.0	<1.0	1.0	C067384
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067384
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	C067384
Dissolved Manganese (Mn)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	C067384
Dissolved Molybdenum (Mo)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	C067384
Dissolved Nickel (Ni)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C067384
Dissolved Selenium (Se)	ug/L	<0.040	<0.040	<0.040	<0.040	0.040	C067384
Dissolved Silicon (Si)	ug/L	<50	<50	<50	<50	50	C067384
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C067384
Dissolved Strontium (Sr)	ug/L	<0.050	0.065	0.058	0.055	0.050	C067384
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	C067384
RDL = Reportable Detection Limit							

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DRS097	DRS098	DRS099	DRS100		
Sampling Date		2025/08/22 10:00	2025/08/23 10:10	2025/08/24 12:30	2025/08/25 14:00		
COC Number		112020	112020	112020	112020		
	UNITS	25-08-FB02	25-08-FB03	25-08-FB04	25-08-TB02	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	C067384
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	C067384
Dissolved Uranium (U)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	C067384
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	C067384
Dissolved Zinc (Zn)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	C067384
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	C067384
RDL = Reportable Detection Limit							

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS062			DRS063	DRS064			DRS065		
Sampling Date		2025/08/24 09:40			2025/08/22 17:00	2025/08/23 16:30			2025/08/23 12:20		
COC Number		112020			112020	112020			112020		
	UNITS	W10/TUL-00	RDL	QC Batch	TUL-06/SW16-3	SW21-2	RDL	QC Batch	SW24-2	RDL	QC Batch
Calculated Parameters											
Total Hardness (CaCO3)	mg/L	38.5	0.50	C064904					54.0	0.50	C064904
Elements											
Total Mercury (Hg)	ug/L	<0.0019	0.0019	C067476					<0.0019	0.0019	C067476
Total Metals by ICPMS											
Total Aluminum (Al)	ug/L	5650	6.0	C074007	2680	1980	3.0	C074007	15.2	3.0	C074007
Total Antimony (Sb)	ug/L	0.221	0.040	C074007	0.094	0.059	0.020	C074007	0.822	0.020	C074007
Total Arsenic (As)	ug/L	2.77	0.040	C074007	1.05	0.557	0.020	C074007	1.59	0.020	C074007
Total Barium (Ba)	ug/L	117	0.10	C074007	78.5	81.6	0.050	C074007	8.00	0.050	C074007
Total Beryllium (Be)	ug/L	0.151	0.020	C074007	0.078	0.047	0.010	C074007	<0.010	0.010	C074007
Total Bismuth (Bi)	ug/L	0.100	0.020	C074007	0.043	0.017	0.010	C074007	<0.010	0.010	C074007
Total Boron (B)	ug/L	<20	20	C074007	<10	<10	10	C074007	<10	10	C074007
Total Cadmium (Cd)	ug/L	0.076	0.010	C074007	0.0433	0.0487	0.0050	C074007	<0.0050	0.0050	C074007
Total Chromium (Cr)	ug/L	8.65	0.20	C074007	6.40	7.86	0.10	C074007	<0.10	0.10	C074007
Total Cobalt (Co)	ug/L	2.46	0.020	C074007	1.54	1.78	0.010	C074007	0.011	0.010	C074007
Total Copper (Cu)	ug/L	8.57	0.20	C074007	6.15	8.00	0.10	C074007	0.22	0.10	C074007
Total Iron (Fe)	ug/L	6240	10	C074007	3600	3630	5.0	C074007	8.9	5.0	C074007
Total Lead (Pb)	ug/L	3.16	0.040	C074007	1.20	0.764	0.020	C074007	<0.020	0.020	C074007
Total Lithium (Li)	ug/L	4.6	1.0	C074007	2.64	2.47	0.50	C074007	<0.50	0.50	C074007
Total Manganese (Mn)	ug/L	125	0.20	C074007	76.3	88.0	0.10	C074007	0.38	0.10	C074007
Total Molybdenum (Mo)	ug/L	1.85	0.10	C074007	1.28	0.708	0.050	C074007	0.174	0.050	C074007
Total Nickel (Ni)	ug/L	7.34	0.20	C074007	5.68	7.61	0.10	C074007	<0.10	0.10	C074007
Total Phosphorus (P)	ug/L	59	10	C074007	47.2	56.3	5.0	C074007	<5.0	5.0	C074007
Total Selenium (Se)	ug/L	0.154	0.080	C074007	0.153	0.134	0.040	C074007	0.065	0.040	C074007
Total Silicon (Si)	ug/L	13100	100	C074007	6490	4630	50	C074007	1130	50	C074007
Total Silver (Ag)	ug/L	0.034	0.020	C074007	0.021	0.020	0.010	C074007	<0.010	0.010	C074007
Total Strontium (Sr)	ug/L	56.4	0.10	C074007	36.4	20.9	0.050	C074007	34.2	0.050	C074007
Total Thallium (Tl)	ug/L	0.0619	0.0040	C074007	0.0331	0.0308	0.0020	C074007	<0.0020	0.0020	C074007
Total Tin (Sn)	ug/L	<0.40	0.40	C074007	<0.20	<0.20	0.20	C074007	<0.20	0.20	C074007
Total Titanium (Ti)	ug/L	323	4.0	C074007	150	117	2.0	C074007	<2.0	2.0	C074007
Total Uranium (U)	ug/L	0.589	0.010	C074007	0.302	0.165	0.0050	C074007	0.0487	0.0050	C074007

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS062			DRS063	DRS064			DRS065		
Sampling Date		2025/08/24 09:40			2025/08/22 17:00	2025/08/23 16:30			2025/08/23 12:20		
COC Number		112020			112020	112020			112020		
	UNITS	W10/TUL-00	RDL	QC Batch	TUL-06/SW16-3	SW21-2	RDL	QC Batch	SW24-2	RDL	QC Batch
Total Vanadium (V)	ug/L	15.8	0.40	C074007	9.24	9.23	0.20	C074007	<0.20	0.20	C074007
Total Zinc (Zn)	ug/L	20.3	2.0	C074007	11.9	10.8	1.0	C074007	<1.0	1.0	C074007
Total Zirconium (Zr)	ug/L	0.72	0.20	C074007	0.39	<0.10	0.10	C074007	<0.10	0.10	C074007
Total Calcium (Ca)	mg/L	9.93	0.50	C070509					20.9	0.25	C070509
Total Magnesium (Mg)	mg/L	3.33	0.50	C070509					0.41	0.25	C070509
Total Potassium (K)	mg/L	2.30	0.50	C070509					0.33	0.25	C070509
Total Sodium (Na)	mg/L	1.28	0.50	C070509					0.36	0.25	C070509
Total Sulphur (S)	mg/L	<6.0	6.0	C070509					<3.0	3.0	C070509
RDL = Reportable Detection Limit											

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS066	DRS067			DRS068	DRS069		DRS070		
Sampling Date		2025/08/24 13:30	2025/08/24 09:10			2025/08/24 12:10	2025/08/21 17:30		2025/08/23 08:50		
COC Number		112020	112020			112020	112020		112020		
	UNITS	TUL-03	TUL-05	RDL	QC Batch	W27	WTP Pond	RDL	SE-2	RDL	QC Batch
Calculated Parameters											
Total Hardness (CaCO3)	mg/L					59.2	197	0.50	157	0.50	C064904
Elements											
Total Mercury (Hg)	ug/L					0.0033	<0.0019	0.0019	0.0071	0.0019	C067476
Total Metals by ICPMS											
Total Aluminum (Al)	ug/L	4730	4490	3.0	C074007	383	28.3	3.0	5070	15	C074007
Total Antimony (Sb)	ug/L	0.188	0.188	0.020	C074007	0.395	8.54	0.020	4.53	0.10	C074007
Total Arsenic (As)	ug/L	2.27	2.16	0.020	C074007	1.78	0.714	0.020	81.6	0.10	C074007
Total Barium (Ba)	ug/L	101	98.9	0.050	C074007	20.5	17.9	0.050	26.7	0.25	C074007
Total Beryllium (Be)	ug/L	0.121	0.111	0.010	C074007	0.015	<0.010	0.010	0.189	0.050	C074007
Total Bismuth (Bi)	ug/L	0.092	0.085	0.010	C074007	<0.010	<0.010	0.010	<0.050	0.050	C074007
Total Boron (B)	ug/L	<10	<10	10	C074007	<10	<10	10	<50	50	C074007
Total Cadmium (Cd)	ug/L	0.0663	0.0571	0.0050	C074007	0.0317	5.88	0.0050	151	0.025	C074007
Total Chromium (Cr)	ug/L	7.44	6.49	0.10	C074007	1.08	0.11	0.10	1.25	0.50	C074007
Total Cobalt (Co)	ug/L	2.04	1.98	0.010	C074007	0.292	0.547	0.010	4.43	0.050	C074007
Total Copper (Cu)	ug/L	6.90	6.70	0.10	C074007	0.85	39.0	0.10	7440	0.50	C074007
Total Iron (Fe)	ug/L	5240	4730	5.0	C074007	606	187	5.0	12100	25	C074007
Total Lead (Pb)	ug/L	2.35	2.25	0.020	C074007	0.220	0.106	0.020	96.4	0.10	C074007
Total Lithium (Li)	ug/L	3.79	3.68	0.50	C074007	1.65	4.96	0.50	9.4	2.5	C074007
Total Manganese (Mn)	ug/L	105	98.7	0.10	C074007	26.1	37.4	0.10	280	0.50	C074007
Total Molybdenum (Mo)	ug/L	1.86	1.91	0.050	C074007	2.46	0.357	0.050	0.63	0.25	C074007
Total Nickel (Ni)	ug/L	6.00	5.80	0.10	C074007	2.43	2.36	0.10	6.74	0.50	C074007
Total Phosphorus (P)	ug/L	47.6	48.1	5.0	C074007	11.9	22.0	5.0	<25	25	C074007
Total Selenium (Se)	ug/L	0.126	0.123	0.040	C074007	0.210	0.082	0.040	0.21	0.20	C074007
Total Silicon (Si)	ug/L	11500	11400	50	C074007	1570	2510	50	5180	250	C074007
Total Silver (Ag)	ug/L	0.031	0.029	0.010	C074007	<0.010	<0.010	0.010	0.120	0.050	C074007
Total Strontium (Sr)	ug/L	52.6	52.2	0.050	C074007	131	155	0.050	212	0.25	C074007
Total Thallium (Tl)	ug/L	0.0516	0.0507	0.0020	C074007	0.0150	0.0076	0.0020	0.250	0.010	C074007
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	C074007	<0.20	<0.20	0.20	<1.0	1.0	C074007
Total Titanium (Ti)	ug/L	265	271	2.0	C074007	11.5	<2.0	2.0	<10	10	C074007
Total Uranium (U)	ug/L	0.553	0.505	0.0050	C074007	0.544	0.0951	0.0050	3.53	0.025	C074007

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS066	DRS067			DRS068	DRS069		DRS070		
Sampling Date		2025/08/24 13:30	2025/08/24 09:10			2025/08/24 12:10	2025/08/21 17:30		2025/08/23 08:50		
COC Number		112020	112020			112020	112020		112020		
	UNITS	TUL-03	TUL-05	RDL	QC Batch	W27	WTP Pond	RDL	SE-2	RDL	QC Batch
Total Vanadium (V)	ug/L	12.8	12.4	0.20	C074007	1.41	<0.20	0.20	<1.0	1.0	C074007
Total Zinc (Zn)	ug/L	15.7	17.7	1.0	C074007	2.5	1350	1.0	38000	5.0	C074007
Total Zirconium (Zr)	ug/L	0.75	0.80	0.10	C074007	<0.10	<0.10	0.10	<0.50	0.50	C074007
Total Calcium (Ca)	mg/L					20.1	72.3	0.25	54.9	1.3	C070509
Total Magnesium (Mg)	mg/L					2.16	4.02	0.25	4.9	1.3	C070509
Total Potassium (K)	mg/L					0.37	0.96	0.25	<1.3	1.3	C070509
Total Sodium (Na)	mg/L					0.49	1.43	0.25	3.5	1.3	C070509
Total Sulphur (S)	mg/L					7.2	46.4	3.0	82	15	C070509
RDL = Reportable Detection Limit											

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS071		DRS072		DRS073	DRS074	DRS075		
Sampling Date		2025/08/23 09:15		2025/08/23 10:00		2025/08/23 15:20	2025/08/23 15:00	2025/08/23 11:30		
COC Number		112020		112020		112020	112020	112020		
	UNITS	5200 Level Adit	RDL	5400 Level Adit	RDL	5900 Level Adit	6400 Seep	CC-02	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	335	0.50	125	0.50	129	61.9	59.5	0.50	C064904
Elements										
Total Mercury (Hg)	ug/L	<0.0019	0.0019	0.0111	0.0019	0.0024	<0.0019	<0.0019	0.0019	C067476
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	16700	60	2780	15	369	69.0	21.3	3.0	C074007
Total Antimony (Sb)	ug/L	2.09	0.40	8.27	0.10	1.58	0.675	0.776	0.020	C074007
Total Arsenic (As)	ug/L	64.4	0.40	139	0.10	1.69	3.00	1.45	0.020	C074007
Total Barium (Ba)	ug/L	13.9	1.0	46.7	0.25	31.4	13.2	13.2	0.050	C074007
Total Beryllium (Be)	ug/L	0.38	0.20	0.169	0.050	0.021	<0.010	<0.010	0.010	C074007
Total Bismuth (Bi)	ug/L	<0.20	0.20	<0.050	0.050	<0.010	<0.010	<0.010	0.010	C074007
Total Boron (B)	ug/L	<200	200	<50	50	<10	<10	<10	10	C074007
Total Cadmium (Cd)	ug/L	336	0.10	140	0.025	5.01	1.12	0.382	0.0050	C074007
Total Chromium (Cr)	ug/L	4.1	2.0	0.67	0.50	<0.10	0.14	0.13	0.10	C074007
Total Cobalt (Co)	ug/L	10.9	0.20	2.56	0.050	4.96	0.060	0.018	0.010	C074007
Total Copper (Cu)	ug/L	20400	2.0	5790	0.50	27.5	56.9	9.08	0.10	C074007
Total Iron (Fe)	ug/L	36800	100	12700	25	990	542	18.9	5.0	C074007
Total Lead (Pb)	ug/L	195	0.40	92.9	0.10	1.40	0.526	0.426	0.020	C074007
Total Lithium (Li)	ug/L	21	10	7.7	2.5	2.53	<0.50	<0.50	0.50	C074007
Total Manganese (Mn)	ug/L	429	2.0	241	0.50	71.9	3.19	1.01	0.10	C074007
Total Molybdenum (Mo)	ug/L	<1.0	1.0	1.25	0.25	0.404	0.160	0.180	0.050	C074007
Total Nickel (Ni)	ug/L	13.3	2.0	4.89	0.50	2.86	0.14	0.25	0.10	C074007
Total Phosphorus (P)	ug/L	<100	100	<25	25	5.4	<5.0	<5.0	5.0	C074007
Total Selenium (Se)	ug/L	<0.80	0.80	0.24	0.20	0.186	0.114	0.098	0.040	C074007
Total Silicon (Si)	ug/L	7250	1000	3550	250	3080	1770	1650	50	C074007
Total Silver (Ag)	ug/L	<0.20	0.20	0.146	0.050	<0.010	<0.010	<0.010	0.010	C074007
Total Strontium (Sr)	ug/L	543	1.0	159	0.25	154	43.9	43.7	0.050	C074007
Total Thallium (Tl)	ug/L	0.879	0.040	0.121	0.010	0.0149	0.0074	0.0025	0.0020	C074007
Total Tin (Sn)	ug/L	<4.0	4.0	<1.0	1.0	<0.20	<0.20	<0.20	0.20	C074007
Total Titanium (Ti)	ug/L	<40	40	<10	10	<2.0	<2.0	<2.0	2.0	C074007
Total Uranium (U)	ug/L	13.0	0.10	2.09	0.025	0.268	0.0729	0.0706	0.0050	C074007

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS071		DRS072		DRS073	DRS074	DRS075		
Sampling Date		2025/08/23 09:15		2025/08/23 10:00		2025/08/23 15:20	2025/08/23 15:00	2025/08/23 11:30		
COC Number		112020		112020		112020	112020	112020		
	UNITS	5200 Level Adit	RDL	5400 Level Adit	RDL	5900 Level Adit	6400 Seep	CC-02	RDL	QC Batch
Total Vanadium (V)	ug/L	<4.0	4.0	<1.0	1.0	<0.20	0.22	<0.20	0.20	C074007
Total Zinc (Zn)	ug/L	84100	20	35100	5.0	1570	233	65.4	1.0	C074007
Total Zirconium (Zr)	ug/L	<2.0	2.0	<0.50	0.50	<0.10	<0.10	<0.10	0.10	C074007
Total Calcium (Ca)	mg/L	113	5.0	44.4	1.3	47.4	24.1	23.0	0.25	C070509
Total Magnesium (Mg)	mg/L	12.9	5.0	3.4	1.3	2.45	0.45	0.48	0.25	C070509
Total Potassium (K)	mg/L	<5.0	5.0	<1.3	1.3	0.69	0.28	0.28	0.25	C070509
Total Sodium (Na)	mg/L	<5.0	5.0	3.9	1.3	1.06	0.53	0.55	0.25	C070509
Total Sulphur (S)	mg/L	211	60	58	15	25.6	<3.0	<3.0	3.0	C070509
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS076	DRS077	DRS078		DRS079		DRS080		
Sampling Date		2025/08/23 14:00	2025/08/24 08:40	2025/08/22 15:20		2025/08/21 17:10		2025/08/22 15:40		
COC Number		112020	112020	112020		112020		112020		
	UNITS	CC-04	SW24-1	SW24-11	RDL	W11	RDL	W44	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	55.7	34.0	37.7	0.50	107	0.50	79.3	0.50	C064904
Elements										
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	0.0019	0.0020	0.0019	<0.0019	0.0019	C067480
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	11.3	2610	2110	3.0	2150	6.0	3.3	3.0	C074007
Total Antimony (Sb)	ug/L	0.456	0.139	0.176	0.020	0.986	0.040	0.130	0.020	C074007
Total Arsenic (As)	ug/L	1.07	1.67	1.66	0.020	15.6	0.040	0.237	0.020	C074007
Total Barium (Ba)	ug/L	7.39	68.9	59.9	0.050	30.5	0.10	52.0	0.050	C074007
Total Beryllium (Be)	ug/L	<0.010	0.087	0.057	0.010	0.118	0.020	<0.010	0.010	C074007
Total Bismuth (Bi)	ug/L	<0.010	0.075	0.074	0.010	<0.020	0.020	<0.010	0.010	C074007
Total Boron (B)	ug/L	<10	<10	<10	10	<20	20	<10	10	C074007
Total Cadmium (Cd)	ug/L	<0.0050	0.0507	0.0556	0.0050	57.4	0.010	0.0059	0.0050	C074007
Total Chromium (Cr)	ug/L	0.11	4.27	3.60	0.10	0.74	0.20	0.12	0.10	C074007
Total Cobalt (Co)	ug/L	<0.010	1.41	1.34	0.010	2.24	0.020	<0.010	0.010	C074007
Total Copper (Cu)	ug/L	0.18	5.25	5.09	0.10	3020	0.20	0.20	0.10	C074007
Total Iron (Fe)	ug/L	<5.0	3130	2900	5.0	2360	10	<5.0	5.0	C074007
Total Lead (Pb)	ug/L	<0.020	1.82	1.75	0.020	38.2	0.040	<0.020	0.020	C074007
Total Lithium (Li)	ug/L	<0.50	2.61	2.58	0.50	4.9	1.0	0.93	0.50	C074007
Total Manganese (Mn)	ug/L	0.45	71.9	69.1	0.10	135	0.20	0.72	0.10	C074007
Total Molybdenum (Mo)	ug/L	0.141	1.82	2.00	0.050	1.21	0.10	3.01	0.050	C074007
Total Nickel (Ni)	ug/L	<0.10	4.15	4.10	0.10	4.55	0.20	0.30	0.10	C074007
Total Phosphorus (P)	ug/L	<5.0	39.7	40.0	5.0	<10	10	<5.0	5.0	C074007
Total Selenium (Se)	ug/L	0.153	0.140	0.149	0.040	0.219	0.080	0.569	0.040	C074007
Total Silicon (Si)	ug/L	988	6320	5140	50	3810	100	1790	50	C074007
Total Silver (Ag)	ug/L	<0.010	0.023	0.026	0.010	0.040	0.020	<0.010	0.010	C074007
Total Strontium (Sr)	ug/L	38.2	46.7	58.1	0.050	143	0.10	91.8	0.050	C074007
Total Thallium (Tl)	ug/L	<0.0020	0.0351	0.0322	0.0020	0.113	0.0040	0.0021	0.0020	C074007
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	<0.40	0.40	<0.20	0.20	C074007
Total Titanium (Ti)	ug/L	<2.0	155	135	2.0	7.3	4.0	<2.0	2.0	C074007
Total Uranium (U)	ug/L	0.0737	0.465	0.504	0.0050	1.88	0.010	0.562	0.0050	C074007

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C573671
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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS076	DRS077	DRS078		DRS079		DRS080		
Sampling Date		2025/08/23 14:00	2025/08/24 08:40	2025/08/22 15:20		2025/08/21 17:10		2025/08/22 15:40		
COC Number		112020	112020	112020		112020		112020		
	UNITS	**CC-04**	**SW24-1**	**SW24-11**	**RDL**	**W11**	**RDL**	**W44**	**RDL**	**QC Batch**
Total Vanadium (V)	ug/L	<0.20	7.82	6.90	0.20	0.50	0.40	<0.20	0.20	C074007
Total Zinc (Zn)	ug/L	<1.0	11.5	11.4	1.0	14800	2.0	2.3	1.0	C074007
Total Zirconium (Zr)	ug/L	<0.10	0.70	0.19	0.10	<0.20	0.20	<0.10	0.10	C074007
Total Calcium (Ca)	mg/L	21.7	10.1	11.6	0.25	37.0	0.50	27.5	0.25	C070509
Total Magnesium (Mg)	mg/L	0.36	2.11	2.16	0.25	3.46	0.50	2.58	0.25	C070509
Total Potassium (K)	mg/L	<0.25	1.56	1.37	0.25	1.03	0.50	1.83	0.25	C070509
Total Sodium (Na)	mg/L	0.42	0.76	0.68	0.25	1.86	0.50	1.07	0.25	C070509
Total Sulphur (S)	mg/L	<3.0	<3.0	3.1	3.0	40.0	6.0	6.1	3.0	C070509
RDL = Reportable Detection Limit										

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS081	DRS082	DRS083	DRS084	DRS085	DRS086		
Sampling Date		2025/08/22 16:20	2025/08/24 08:50	2025/08/21 13:50	2025/08/21 12:50	2025/08/21 15:20	2025/08/22 14:20		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	W45	W46/SW21-4	SW16-8	SW21-5	SW24-4	TUL-09/W51	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	78.6	39.8	61.1	37.4	45.1	40.4	0.50	C064904
Elements									
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019 (1)	<0.0019	0.0019	C067480
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	<3.0	3390	93.3	119	170	3270	3.0	C074011
Total Antimony (Sb)	ug/L	0.116	0.201	0.413	0.242	0.227	0.195	0.020	C074011
Total Arsenic (As)	ug/L	0.248	2.01	0.766	1.68	0.697	1.85	0.020	C074011
Total Barium (Ba)	ug/L	52.9	80.5	33.0	11.1	25.5	81.2	0.050	C074011
Total Beryllium (Be)	ug/L	<0.010	0.092	<0.010	<0.010	<0.010	0.096	0.010	C074011
Total Bismuth (Bi)	ug/L	<0.010	0.079	<0.010	<0.010	<0.010	0.075	0.010	C074011
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C074011
Total Cadmium (Cd)	ug/L	0.0089	0.0585	0.167	<0.0050	0.777	0.0522	0.0050	C074011
Total Chromium (Cr)	ug/L	<0.10	4.86	0.28	0.32	0.39	5.19	0.10	C074011
Total Cobalt (Co)	ug/L	0.021	1.58	0.093	0.077	0.086	1.47	0.010	C074011
Total Copper (Cu)	ug/L	0.29	5.75	3.59	0.53	20.7	5.37	0.10	C074011
Total Iron (Fe)	ug/L	12.3	3660	161	151	167	3430	5.0	C074011
Total Lead (Pb)	ug/L	<0.020	2.08	0.230	0.025	0.283	1.87	0.020	C074011
Total Lithium (Li)	ug/L	0.89	2.94	0.56	<0.50	0.82	2.69	0.50	C074011
Total Manganese (Mn)	ug/L	1.27	82.6	4.42	4.85	4.40	75.7	0.10	C074011
Total Molybdenum (Mo)	ug/L	2.16	2.11	0.424	0.483	2.93	2.14	0.050	C074011
Total Nickel (Ni)	ug/L	0.39	4.71	0.45	0.34	0.45	4.50	0.10	C074011
Total Phosphorus (P)	ug/L	<5.0	46.9	6.3	6.5	5.3	41.5	5.0	C074011
Total Selenium (Se)	ug/L	0.340	0.168	0.190	0.130	0.233	0.161	0.040	C074011
Total Silicon (Si)	ug/L	1990	8750	2180	693	1480	8410	50	C074011
Total Silver (Ag)	ug/L	<0.010	0.026	<0.010	<0.010	<0.010	0.025	0.010	C074011
Total Strontium (Sr)	ug/L	90.1	61.9	48.4	45.8	66.4	60.9	0.050	C074011
Total Thallium (Tl)	ug/L	0.0020	0.0465	0.0071	<0.0020	0.0108	0.0417	0.0020	C074011
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C074011
Total Titanium (Ti)	ug/L	<2.0	210	4.4	4.1	6.6	187	2.0	C074011

RDL = Reportable Detection Limit
(1) Sample received was not in compliance with BC CSR sampling requirements for Mercury in water.

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS081	DRS082	DRS083	DRS084	DRS085	DRS086		
Sampling Date		2025/08/22 16:20	2025/08/24 08:50	2025/08/21 13:50	2025/08/21 12:50	2025/08/21 15:20	2025/08/22 14:20		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	**W45**	**W46/SW21-4**	**SW16-8**	**SW21-5**	**SW24-4**	**TUL-09/W51**	**RDL**	**QC Batch**
Total Uranium (U)	ug/L	0.330	0.534	0.134	0.183	0.339	0.513	0.0050	C074011
Total Vanadium (V)	ug/L	<0.20	9.14	0.42	0.42	0.50	8.75	0.20	C074011
Total Zinc (Zn)	ug/L	3.8	12.6	12.6	2.6	162	11.6	1.0	C074011
Total Zirconium (Zr)	ug/L	<0.10	0.88	<0.10	<0.10	<0.10	0.74	0.10	C074011
Total Calcium (Ca)	mg/L	27.2	11.7	22.8	13.5	15.7	11.9	0.25	C070509
Total Magnesium (Mg)	mg/L	2.61	2.59	0.99	0.90	1.45	2.61	0.25	C070509
Total Potassium (K)	mg/L	1.76	1.86	0.59	<0.25	1.09	1.83	0.25	C070509
Total Sodium (Na)	mg/L	0.96	0.96	0.58	0.29	1.16	0.99	0.25	C070509
Total Sulphur (S)	mg/L	6.0	3.2	<3.0	<3.0	5.3	3.4	3.0	C070509
RDL = Reportable Detection Limit									

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Client Project #: 234.030071.00002
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Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS087	DRS088	DRS089	DRS090	DRS091	DRS092		
Sampling Date		2025/08/22 09:40	2025/08/22 11:10	2025/08/22 12:30	2025/08/22 13:20	2025/08/22 13:40	2025/08/22 11:30		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	SW24-6	SW24-7	SW24-8	SW24-10	TUL-12	W32/TUL-15	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	39.6	41.0	69.0	40.2	40.8	39.5	0.50	C064904
Elements									
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C067480
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	2960	3120	13.7	2770	113	2970	3.0	C074011
Total Antimony (Sb)	ug/L	0.190	0.182	0.120	0.191	0.235	0.189	0.020	C074011
Total Arsenic (As)	ug/L	1.73	1.85	0.211	1.77	1.19	1.86	0.020	C074011
Total Barium (Ba)	ug/L	76.8	77.2	51.9	71.5	18.3	75.4	0.050	C074011
Total Beryllium (Be)	ug/L	0.076	0.094	<0.010	0.072	<0.010	0.078	0.010	C074011
Total Bismuth (Bi)	ug/L	0.068	0.078	<0.010	0.062	<0.010	0.074	0.010	C074011
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C074011
Total Cadmium (Cd)	ug/L	0.0556	0.0552	0.0095	0.0537	0.103	0.0587	0.0050	C074011
Total Chromium (Cr)	ug/L	4.43	4.61	0.11	4.73	0.92	4.59	0.10	C074011
Total Cobalt (Co)	ug/L	1.38	1.42	0.021	1.33	0.071	1.43	0.010	C074011
Total Copper (Cu)	ug/L	5.14	5.34	0.44	4.88	2.55	5.33	0.10	C074011
Total Iron (Fe)	ug/L	3210	3320	21.0	2980	141	3450	5.0	C074011
Total Lead (Pb)	ug/L	1.80	1.84	0.022	1.70	0.068	1.81	0.020	C074011
Total Lithium (Li)	ug/L	2.57	2.64	0.77	2.46	0.56	2.66	0.50	C074011
Total Manganese (Mn)	ug/L	72.6	74.7	0.95	69.0	3.98	75.0	0.10	C074011
Total Molybdenum (Mo)	ug/L	2.24	2.06	2.40	2.22	1.15	2.06	0.050	C074011
Total Nickel (Ni)	ug/L	4.18	4.32	0.45	3.91	0.26	4.36	0.10	C074011
Total Phosphorus (P)	ug/L	39.3	40.4	<5.0	38.6	5.1	42.0	5.0	C074011
Total Selenium (Se)	ug/L	0.151	0.155	0.343	0.165	0.163	0.153	0.040	C074011
Total Silicon (Si)	ug/L	7990	9410	1930	7310	883	7430	50	C074011
Total Silver (Ag)	ug/L	0.022	0.025	<0.010	0.023	<0.010	0.024	0.010	C074011
Total Strontium (Sr)	ug/L	60.5	61.6	83.7	63.7	51.9	60.6	0.050	C074011
Total Thallium (Tl)	ug/L	0.0411	0.0408	0.0035	0.0404	0.0043	0.0425	0.0020	C074011
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C074011
Total Titanium (Ti)	ug/L	183	200	<2.0	169	4.8	186	2.0	C074011
Total Uranium (U)	ug/L	0.512	0.527	0.366	0.512	0.238	0.508	0.0050	C074011

RDL = Reportable Detection Limit

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Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS087	DRS088	DRS089	DRS090	DRS091	DRS092		
Sampling Date		2025/08/22 09:40	2025/08/22 11:10	2025/08/22 12:30	2025/08/22 13:20	2025/08/22 13:40	2025/08/22 11:30		
COC Number		112020	112020	112020	112020	112020	112020		
	UNITS	SW24-6	SW24-7	SW24-8	SW24-10	TUL-12	W32/TUL-15	RDL	QC Batch
Total Vanadium (V)	ug/L	8.35	8.39	<0.20	7.70	0.41	8.17	0.20	C074011
Total Zinc (Zn)	ug/L	13.3	12.4	1.6	11.0	20.1	12.4	1.0	C074011
Total Zirconium (Zr)	ug/L	0.72	1.13	<0.10	0.55	<0.10	0.55	0.10	C074011
Total Calcium (Ca)	mg/L	11.8	12.4	23.6	12.2	14.6	11.9	0.25	C070509
Total Magnesium (Mg)	mg/L	2.43	2.44	2.42	2.39	1.07	2.39	0.25	C070509
Total Potassium (K)	mg/L	1.76	1.78	1.67	1.71	0.52	1.67	0.25	C070509
Total Sodium (Na)	mg/L	0.99	0.95	1.94	0.93	0.46	0.84	0.25	C070509
Total Sulphur (S)	mg/L	3.4	3.4	5.2	3.6	<3.0	3.3	3.0	C070509
RDL = Reportable Detection Limit									

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS093	DRS094		DRS095			DRS096		
Sampling Date		2025/08/22 09:45	2025/08/22 15:20		2025/08/23 10:00			2025/08/24 08:40		
COC Number		112020	112020		112020			112020		
	UNITS	25-08-DUP02	25-08-DUP03	RDL	25-08-DUP04	RDL	QC Batch	25-08-DUP05	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	38.9	39.7	0.50	127	0.50	C064904	37.5	0.50	C064904
Elements										
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	0.0130	0.0019	C067480	<0.0019	0.0019	C071964
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	2680	3310	3.0	3010	15	C074011	3480	3.0	C074011
Total Antimony (Sb)	ug/L	0.166	0.196	0.020	8.66	0.10	C074011	0.178	0.020	C074011
Total Arsenic (As)	ug/L	1.69	1.97	0.020	144	0.10	C074011	1.83	0.020	C074011
Total Barium (Ba)	ug/L	73.2	78.4	0.050	62.8	0.25	C074011	82.9	0.050	C074011
Total Beryllium (Be)	ug/L	0.075	0.103	0.010	0.178	0.050	C074011	0.087	0.010	C074011
Total Bismuth (Bi)	ug/L	0.068	0.077	0.010	<0.050	0.050	C074011	0.078	0.010	C074011
Total Boron (B)	ug/L	<10	<10	10	<50	50	C074011	<10	10	C074011
Total Cadmium (Cd)	ug/L	0.0497	0.0614	0.0050	145	0.025	C074011	0.0574	0.0050	C074011
Total Chromium (Cr)	ug/L	4.08	4.77	0.10	0.56	0.50	C074011	7.31	0.10	C074011
Total Cobalt (Co)	ug/L	1.35	1.51	0.010	2.71	0.050	C074011	1.58	0.010	C074011
Total Copper (Cu)	ug/L	4.86	5.60	0.10	6180	0.50	C074011	5.88	0.10	C074011
Total Iron (Fe)	ug/L	3080	3600	5.0	13000	25	C074011	3810	5.0	C074011
Total Lead (Pb)	ug/L	1.71	1.91	0.020	96.8	0.10	C074011	2.00	0.020	C074011
Total Lithium (Li)	ug/L	2.50	2.76	0.50	7.8	2.5	C074011	2.85	0.50	C074011
Total Manganese (Mn)	ug/L	68.7	78.7	0.10	252	0.50	C074011	84.7	0.10	C074011
Total Molybdenum (Mo)	ug/L	2.11	2.14	0.050	1.28	0.25	C074011	2.13	0.050	C074011
Total Nickel (Ni)	ug/L	3.99	4.69	0.10	4.94	0.50	C074011	4.73	0.10	C074011
Total Phosphorus (P)	ug/L	39.4	41.5	5.0	25	25	C074011	46.8	5.0	C074011
Total Selenium (Se)	ug/L	0.169	0.144	0.040	0.32	0.20	C074011	0.156	0.040	C074011
Total Silicon (Si)	ug/L	8570	8440	50	3680	250	C074011	9120	50	C074011
Total Silver (Ag)	ug/L	0.024	0.027	0.010	0.143	0.050	C074011	0.026	0.010	C074011
Total Strontium (Sr)	ug/L	58.1	63.2	0.050	167	0.25	C074011	54.3	0.050	C074011
Total Thallium (Tl)	ug/L	0.0360	0.0437	0.0020	0.135	0.010	C074011	0.0451	0.0020	C074011
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	<1.0	1.0	C074011	<0.20	0.20	C074011
Total Titanium (Ti)	ug/L	171	191	2.0	<10	10	C074011	211	2.0	C074011
Total Uranium (U)	ug/L	0.489	0.527	0.0050	2.21	0.025	C074011	0.510	0.0050	C074011

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DRS093	DRS094		DRS095			DRS096		
Sampling Date		2025/08/22 09:45	2025/08/22 15:20		2025/08/23 10:00			2025/08/24 08:40		
COC Number		112020	112020		112020			112020		
	UNITS	25-08-DUP02	25-08-DUP03	RDL	25-08-DUP04	RDL	QC Batch	25-08-DUP05	RDL	QC Batch
Total Vanadium (V)	ug/L	7.60	9.08	0.20	<1.0	1.0	C074011	9.21	0.20	C074011
Total Zinc (Zn)	ug/L	12.4	12.3	1.0	36000	5.0	C074011	13.4	1.0	C074011
Total Zirconium (Zr)	ug/L	0.68	0.80	0.10	<0.50	0.50	C074011	0.89	0.10	C074011
Total Calcium (Ca)	mg/L	11.8	11.8	0.25	44.7	1.3	C070509	10.9	0.25	C070509
Total Magnesium (Mg)	mg/L	2.31	2.51	0.25	3.8	1.3	C070509	2.53	0.25	C070509
Total Potassium (K)	mg/L	1.67	1.81	0.25	<1.3	1.3	C070509	1.94	0.25	C070509
Total Sodium (Na)	mg/L	0.91	0.96	0.25	4.3	1.3	C070509	1.01	0.25	C070509
Total Sulphur (S)	mg/L	3.3	<3.0	3.0	64	15	C070509	<3.0	3.0	C070509
RDL = Reportable Detection Limit										

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GENERAL COMMENTS

Sample DRS062 [W10/TUL-00] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS063 [TUL-06/SW16-3] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS064 [SW21-2] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS065 [SW24-2] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS066 [TUL-03] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS067 [TUL-05] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS068 [W27] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS069 [WTP Pond] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS070 [SE-2] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS071 [5200 Level Adit] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS072 [5400 Level Adit] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS073 [5900 Level Adit] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS074 [6400 Seep] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

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Sample DRS075 [CC-02] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS076 [CC-04] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS077 [SW24-1] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS078 [SW24-11] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS079 [W11] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS080 [W44] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS081 [W45] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS082 [W46/SW21-4] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DRS083 [SW16-8] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS084 [SW21-5] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS085 [SW24-4] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS086 [TUL-09/W51] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past

method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS087 [SW24-6] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS088 [SW24-7] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS089 [SW24-8] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS090 [SW24-10] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS091 [TUL-12] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS092 [W32/TUL-15] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DRS093 [25-08-DUP02] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS094 [25-08-DUP03] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS095 [25-08-DUP04] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS096 [25-08-DUP05] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DRS097 [25-08-FB02] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

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Sample DRS098 [25-08-FB03] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DRS099 [25-08-FB04] : Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C065875	Orthophosphate (P)	2025/08/28	106	80 - 120	107	80 - 120	<0.0030	mg/L	NC	20
C065888	Orthophosphate (P)	2025/08/28	107	80 - 120	106	80 - 120	<0.0030	mg/L	NC	20
C065893	Total Suspended Solids	2025/08/29	104	80 - 120	105	80 - 120	<1.0	mg/L	1.5	20
C066168	Dissolved Phosphorus (P)	2025/08/29	97	N/A	109	80 - 120	<0.0030	mg/L	NC	20
C066542	Nitrate plus Nitrite (N)	2025/08/28	120	80 - 120	110	80 - 120	<0.020	mg/L	NC	25
C066546	Nitrite (N)	2025/08/28	104	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20
C066549	Alkalinity (PP as CaCO3)	2025/08/28					<1.0	mg/L		
C066549	Alkalinity (Total as CaCO3)	2025/08/28			94	80 - 120	<1.0	mg/L		
C066549	Bicarbonate (HCO3)	2025/08/28					<1.0	mg/L		
C066549	Carbonate (CO3)	2025/08/28					<1.0	mg/L		
C066549	Hydroxide (OH)	2025/08/28					<1.0	mg/L		
C066553	Conductivity	2025/08/28			100	90 - 110	<2.0	uS/cm		
C066556	pH	2025/08/28			100	97 - 103				
C066771	Alkalinity (PP as CaCO3)	2025/08/29					<1.0	mg/L	NC	20
C066771	Alkalinity (Total as CaCO3)	2025/08/29			92	80 - 120	<1.0	mg/L	0.30	20
C066771	Bicarbonate (HCO3)	2025/08/29					<1.0	mg/L	0.30	20
C066771	Carbonate (CO3)	2025/08/29					<1.0	mg/L	NC	20
C066771	Hydroxide (OH)	2025/08/29					<1.0	mg/L	NC	20
C066776	Conductivity	2025/08/29			100	90 - 110	<2.0	uS/cm	0.11	10
C066778	pH	2025/08/29			100	97 - 103			1.5	N/A
C066908	Alkalinity (PP as CaCO3)	2025/08/29					<1.0	mg/L	NC	20
C066908	Alkalinity (Total as CaCO3)	2025/08/29			96	80 - 120	<1.0	mg/L	1.6	20
C066908	Bicarbonate (HCO3)	2025/08/29					<1.0	mg/L	1.6	20
C066908	Carbonate (CO3)	2025/08/29					<1.0	mg/L	NC	20
C066908	Hydroxide (OH)	2025/08/29					<1.0	mg/L	NC	20
C066912	Conductivity	2025/08/29			101	90 - 110	<2.0	uS/cm	0.37	10
C066913	pH	2025/08/29			100	97 - 103				
C067366	Dissolved Aluminum (Al)	2025/08/30	109	80 - 120	112	80 - 120	<0.50	ug/L	2.7	20
C067366	Dissolved Antimony (Sb)	2025/08/30	107	80 - 120	107	80 - 120	<0.020	ug/L	1.7	20
C067366	Dissolved Arsenic (As)	2025/08/30	103	80 - 120	103	80 - 120	<0.020	ug/L	0.90	20
C067366	Dissolved Barium (Ba)	2025/08/30	108	80 - 120	108	80 - 120	<0.020	ug/L	2.0	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C067366	Dissolved Beryllium (Be)	2025/08/30	103	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
C067366	Dissolved Bismuth (Bi)	2025/08/30	101	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
C067366	Dissolved Boron (B)	2025/08/30	117	80 - 120	116	80 - 120	<10	ug/L	NC	20
C067366	Dissolved Cadmium (Cd)	2025/08/30	102	80 - 120	102	80 - 120	<0.0050	ug/L	2.0	20
C067366	Dissolved Chromium (Cr)	2025/08/30	98	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
C067366	Dissolved Cobalt (Co)	2025/08/30	93	80 - 120	96	80 - 120	<0.0050	ug/L	12	20
C067366	Dissolved Copper (Cu)	2025/08/30	95	80 - 120	98	80 - 120	<0.050	ug/L	2.3	20
C067366	Dissolved Iron (Fe)	2025/08/30	106	80 - 120	105	80 - 120	<1.0	ug/L	NC	20
C067366	Dissolved Lead (Pb)	2025/08/30	99	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
C067366	Dissolved Lithium (Li)	2025/08/30	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
C067366	Dissolved Manganese (Mn)	2025/08/30	96	80 - 120	96	80 - 120	<0.050	ug/L	5.8	20
C067366	Dissolved Molybdenum (Mo)	2025/08/30	108	80 - 120	107	80 - 120	<0.050	ug/L	0.47	20
C067366	Dissolved Nickel (Ni)	2025/08/30	95	80 - 120	97	80 - 120	<0.020	ug/L	3.0	20
C067366	Dissolved Selenium (Se)	2025/08/30	99	80 - 120	98	80 - 120	<0.040	ug/L	19	20
C067366	Dissolved Silicon (Si)	2025/08/30	114	80 - 120	114	80 - 120	<50	ug/L	0.39	20
C067366	Dissolved Silver (Ag)	2025/08/30	101	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
C067366	Dissolved Strontium (Sr)	2025/08/30	109	80 - 120	108	80 - 120	<0.050	ug/L	2.9	20
C067366	Dissolved Thallium (Tl)	2025/08/30	103	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
C067366	Dissolved Tin (Sn)	2025/08/30	101	80 - 120	107	80 - 120	<0.20	ug/L	NC	20
C067366	Dissolved Titanium (Ti)	2025/08/30	101	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
C067366	Dissolved Uranium (U)	2025/08/30	109	80 - 120	110	80 - 120	0.0024, RDL=0.0020 (1)	ug/L	5.1	20
C067366	Dissolved Vanadium (V)	2025/08/30	96	80 - 120	95	80 - 120	<0.20	ug/L	NC	20
C067366	Dissolved Zinc (Zn)	2025/08/30	102	80 - 120	105	80 - 120	<0.10	ug/L	11	20
C067366	Dissolved Zirconium (Zr)	2025/08/30	108	80 - 120	106	80 - 120	<0.10	ug/L	NC	20
C067384	Dissolved Aluminum (Al)	2025/08/30	113	80 - 120	112	80 - 120	<0.50	ug/L	NC	20
C067384	Dissolved Antimony (Sb)	2025/08/30	110	80 - 120	109	80 - 120	<0.020	ug/L	NC	20
C067384	Dissolved Arsenic (As)	2025/08/30	106	80 - 120	104	80 - 120	<0.020	ug/L	NC	20
C067384	Dissolved Barium (Ba)	2025/08/30	108	80 - 120	109	80 - 120	<0.020	ug/L	NC	20
C067384	Dissolved Beryllium (Be)	2025/08/30	105	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
C067384	Dissolved Bismuth (Bi)	2025/08/30	104	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C067384	Dissolved Boron (B)	2025/08/30	121 (2)	80 - 120	117	80 - 120	<10	ug/L	NC	20
C067384	Dissolved Cadmium (Cd)	2025/08/30	105	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
C067384	Dissolved Chromium (Cr)	2025/08/30	102	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
C067384	Dissolved Cobalt (Co)	2025/08/30	97	80 - 120	95	80 - 120	<0.0050	ug/L	NC	20
C067384	Dissolved Copper (Cu)	2025/08/30	99	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
C067384	Dissolved Iron (Fe)	2025/08/30	109	80 - 120	105	80 - 120	<1.0	ug/L	NC	20
C067384	Dissolved Lead (Pb)	2025/08/30	103	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
C067384	Dissolved Lithium (Li)	2025/08/30	105	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
C067384	Dissolved Manganese (Mn)	2025/08/30	98	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
C067384	Dissolved Molybdenum (Mo)	2025/08/30	110	80 - 120	109	80 - 120	<0.050	ug/L	NC	20
C067384	Dissolved Nickel (Ni)	2025/08/30	99	80 - 120	97	80 - 120	<0.020	ug/L	NC	20
C067384	Dissolved Selenium (Se)	2025/08/30	101	80 - 120	98	80 - 120	<0.040	ug/L	NC	20
C067384	Dissolved Silicon (Si)	2025/08/30	117	80 - 120	116	80 - 120	<50	ug/L	NC	20
C067384	Dissolved Silver (Ag)	2025/08/30	103	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
C067384	Dissolved Strontium (Sr)	2025/08/30	NC	80 - 120	110	80 - 120	0.079, RDL=0.050 (1)	ug/L	9.2	20
C067384	Dissolved Thallium (Tl)	2025/08/30	107	80 - 120	103	80 - 120	<0.0020	ug/L	NC	20
C067384	Dissolved Tin (Sn)	2025/08/30	107	80 - 120	107	80 - 120	<0.20	ug/L	NC	20
C067384	Dissolved Titanium (Ti)	2025/08/30	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
C067384	Dissolved Uranium (U)	2025/08/30	114	80 - 120	111	80 - 120	<0.0020	ug/L	NC	20
C067384	Dissolved Vanadium (V)	2025/08/30	100	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
C067384	Dissolved Zinc (Zn)	2025/08/30	103	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
C067384	Dissolved Zirconium (Zr)	2025/08/30	110	80 - 120	108	80 - 120	<0.10	ug/L	NC	20
C067410	Dissolved Aluminum (Al)	2025/08/30	104	80 - 120	105	80 - 120	<0.50	ug/L	1.9	20
C067410	Dissolved Antimony (Sb)	2025/08/30	107	80 - 120	105	80 - 120	<0.020	ug/L	0.11	20
C067410	Dissolved Arsenic (As)	2025/08/30	105	80 - 120	103	80 - 120	<0.020	ug/L	0.57	20
C067410	Dissolved Barium (Ba)	2025/08/30	107	80 - 120	105	80 - 120	<0.020	ug/L	0.074	20
C067410	Dissolved Beryllium (Be)	2025/08/30	104	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
C067410	Dissolved Bismuth (Bi)	2025/08/30	102	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
C067410	Dissolved Boron (B)	2025/08/30	117	80 - 120	114	80 - 120	<10	ug/L	NC	20
C067410	Dissolved Cadmium (Cd)	2025/08/30	104	80 - 120	102	80 - 120	<0.0050	ug/L	1.8	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C067410	Dissolved Chromium (Cr)	2025/08/30	101	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
C067410	Dissolved Cobalt (Co)	2025/08/30	96	80 - 120	98	80 - 120	<0.0050	ug/L	11	20
C067410	Dissolved Copper (Cu)	2025/08/30	98	80 - 120	100	80 - 120	<0.050	ug/L	0.31	20
C067410	Dissolved Iron (Fe)	2025/08/30	104	80 - 120	102	80 - 120	<1.0	ug/L	0.28	20
C067410	Dissolved Lead (Pb)	2025/08/30	100	80 - 120	97	80 - 120	<0.0050	ug/L	2.9	20
C067410	Dissolved Lithium (Li)	2025/08/30	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
C067410	Dissolved Manganese (Mn)	2025/08/30	99	80 - 120	99	80 - 120	<0.050	ug/L	3.6	20
C067410	Dissolved Molybdenum (Mo)	2025/08/30	111	80 - 120	105	80 - 120	<0.050	ug/L	11	20
C067410	Dissolved Nickel (Ni)	2025/08/30	98	80 - 120	101	80 - 120	<0.020	ug/L	6.0	20
C067410	Dissolved Selenium (Se)	2025/08/30	102	80 - 120	100	80 - 120	<0.040	ug/L	3.6	20
C067410	Dissolved Silicon (Si)	2025/08/30	111	80 - 120	104	80 - 120	<50	ug/L	0.15	20
C067410	Dissolved Silver (Ag)	2025/08/30	103	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
C067410	Dissolved Strontium (Sr)	2025/08/30	NC	80 - 120	105	80 - 120	<0.050	ug/L	0.49	20
C067410	Dissolved Thallium (Tl)	2025/08/30	104	80 - 120	101	80 - 120	<0.0020	ug/L	0	20
C067410	Dissolved Tin (Sn)	2025/08/30	106	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
C067410	Dissolved Titanium (Ti)	2025/08/30	103	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
C067410	Dissolved Uranium (U)	2025/08/30	107	80 - 120	104	80 - 120	<0.0020	ug/L	2.3	20
C067410	Dissolved Vanadium (V)	2025/08/30	100	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
C067410	Dissolved Zinc (Zn)	2025/08/30	NC	80 - 120	106	80 - 120	<0.10	ug/L	1.3	20
C067410	Dissolved Zirconium (Zr)	2025/08/30	109	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
C067468	Dissolved Aluminum (Al)	2025/09/03	99	80 - 120	101	80 - 120	<0.50	ug/L	12	20
C067468	Dissolved Antimony (Sb)	2025/09/03	101	80 - 120	104	80 - 120	<0.020	ug/L	0.75	20
C067468	Dissolved Arsenic (As)	2025/09/03	104	80 - 120	105	80 - 120	<0.020	ug/L	2.4	20
C067468	Dissolved Barium (Ba)	2025/09/03	NC	80 - 120	102	80 - 120	<0.020	ug/L	0.82	20
C067468	Dissolved Beryllium (Be)	2025/09/03	102	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
C067468	Dissolved Bismuth (Bi)	2025/09/03	99	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
C067468	Dissolved Boron (B)	2025/09/03	106	80 - 120	105	80 - 120	<10	ug/L	NC	20
C067468	Dissolved Cadmium (Cd)	2025/09/03	104	80 - 120	104	80 - 120	<0.0050	ug/L	9.0	20
C067468	Dissolved Chromium (Cr)	2025/09/03	100	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
C067468	Dissolved Cobalt (Co)	2025/09/03	99	80 - 120	102	80 - 120	<0.0050	ug/L	15	20
C067468	Dissolved Copper (Cu)	2025/09/03	96	80 - 120	100	80 - 120	<0.050	ug/L	1.7	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C067468	Dissolved Iron (Fe)	2025/09/03	100	80 - 120	104	80 - 120	<1.0	ug/L	4.3	20
C067468	Dissolved Lead (Pb)	2025/09/03	97	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
C067468	Dissolved Lithium (Li)	2025/09/03	97	80 - 120	96	80 - 120	<0.50	ug/L	2.7	20
C067468	Dissolved Manganese (Mn)	2025/09/03	99	80 - 120	105	80 - 120	<0.050	ug/L	4.3	20
C067468	Dissolved Molybdenum (Mo)	2025/09/03	100	80 - 120	101	80 - 120	<0.050	ug/L	2.1	20
C067468	Dissolved Nickel (Ni)	2025/09/03	96	80 - 120	101	80 - 120	<0.020	ug/L	7.6	20
C067468	Dissolved Selenium (Se)	2025/09/03	101	80 - 120	103	80 - 120	<0.040	ug/L	11	20
C067468	Dissolved Silicon (Si)	2025/09/03	105	80 - 120	111	80 - 120	<50	ug/L	2.3	20
C067468	Dissolved Silver (Ag)	2025/09/03	103	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
C067468	Dissolved Strontium (Sr)	2025/09/03	NC	80 - 120	106	80 - 120	<0.050	ug/L	0.85	20
C067468	Dissolved Thallium (Tl)	2025/09/03	101	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
C067468	Dissolved Tin (Sn)	2025/09/03	104	80 - 120	106	80 - 120	<0.20	ug/L	NC	20
C067468	Dissolved Titanium (Ti)	2025/09/03	104	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
C067468	Dissolved Uranium (U)	2025/09/03	107	80 - 120	111	80 - 120	<0.0020	ug/L	0.34	20
C067468	Dissolved Vanadium (V)	2025/09/03	102	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
C067468	Dissolved Zinc (Zn)	2025/09/03	102	80 - 120	108	80 - 120	<0.10	ug/L	2.4	20
C067468	Dissolved Zirconium (Zr)	2025/09/03	101	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
C067476	Total Mercury (Hg)	2025/09/02	106	80 - 120	96	80 - 120	<0.0019	ug/L	NC	20
C067480	Total Mercury (Hg)	2025/09/02	106	80 - 120	94	80 - 120	<0.0019	ug/L	NC	20
C067518	Dissolved Mercury (Hg)	2025/09/02	98	80 - 120	91	80 - 120	<0.0019	ug/L	NC	20
C067548	Dissolved Organic Carbon (C)	2025/08/29	109	80 - 120	106	80 - 120	<0.50	mg/L	NC	20
C067590	Chloride (Cl)	2025/08/29	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.84	20
C067590	Sulphate (SO4)	2025/08/29	NC	80 - 120	100	80 - 120	<1.0	mg/L	1.4	20
C067617	Chloride (Cl)	2025/08/29	105	80 - 120	99	80 - 120	<1.0	mg/L	3.2	20
C067617	Sulphate (SO4)	2025/08/29	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.79	20
C067707	Chloride (Cl)	2025/08/29	105	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
C067707	Sulphate (SO4)	2025/08/29	109	80 - 120	97	80 - 120	<1.0	mg/L	0.43	20
C067741	Total Suspended Solids	2025/09/02	101	80 - 120	100	80 - 120	<1.0	mg/L	0	20
C067746	Dissolved Fluoride (F)	2025/08/29	97	80 - 120	102	80 - 120	<0.050	mg/L	NC	20
C067794	Alkalinity (PP as CaCO3)	2025/08/29					<1.0	mg/L	NC	20
C067794	Alkalinity (Total as CaCO3)	2025/08/29			94	80 - 120	<1.0	mg/L	0.78	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C067794	Bicarbonate (HCO3)	2025/08/29					<1.0	mg/L	0.78	20
C067794	Carbonate (CO3)	2025/08/29					<1.0	mg/L	NC	20
C067794	Hydroxide (OH)	2025/08/29					<1.0	mg/L	NC	20
C067796	Total Ammonia (N)	2025/08/29	108	80 - 120	109	80 - 120	<0.015	mg/L	NC	20
C067802	Dissolved Organic Carbon (C)	2025/08/29	115	80 - 120	106	80 - 120	<0.50	mg/L	NC	20
C067805	Conductivity	2025/08/29			100	90 - 110	<2.0	uS/cm	0.79	10
C067806	Total Ammonia (N)	2025/08/29	106	80 - 120	109	80 - 120	<0.015	mg/L	NC	20
C067808	pH	2025/08/29			100	97 - 103			0.50	N/A
C067821	Total Ammonia (N)	2025/08/29	106	80 - 120	109	80 - 120	<0.015	mg/L	NC	20
C067831	Total Suspended Solids	2025/09/02	110	80 - 120	101	80 - 120	<1.0	mg/L	15	20
C068045	Dissolved Fluoride (F)	2025/08/29	95	80 - 120	104	80 - 120	<0.050	mg/L	4.9	20
C068104	Dissolved Fluoride (F)	2025/08/29	NC	80 - 120	101	80 - 120	<0.050	mg/L	NC	20
C068117	Dissolved Fluoride (F)	2025/08/30	105	80 - 120	101	80 - 120	<0.050	mg/L	6.8	20
C068129	Chloride (Cl)	2025/09/02	102	80 - 120	98	80 - 120	<1.0	mg/L	NC	20
C068129	Sulphate (SO4)	2025/09/02	NC	80 - 120	96	80 - 120	<1.0	mg/L	0.32	20
C068133	Chloride (Cl)	2025/09/02	104	80 - 120	97	80 - 120	<1.0	mg/L	NC	20
C068133	Sulphate (SO4)	2025/09/02	99	80 - 120	94	80 - 120	<1.0	mg/L	NC	20
C068145	pH	2025/08/30			100	97 - 103			0.92	N/A
C068157	Conductivity	2025/08/30			101	90 - 110	<2.0	uS/cm		
C068159	Alkalinity (PP as CaCO3)	2025/08/30					<1.0	mg/L	NC	20
C068159	Alkalinity (Total as CaCO3)	2025/08/30			96	80 - 120	<1.0	mg/L	1.3	20
C068159	Bicarbonate (HCO3)	2025/08/30					<1.0	mg/L	1.3	20
C068159	Carbonate (CO3)	2025/08/30					<1.0	mg/L	NC	20
C068159	Hydroxide (OH)	2025/08/30					<1.0	mg/L	NC	20
C068164	pH	2025/08/30			100	97 - 103			0.46	N/A
C068172	Conductivity	2025/08/30			101	90 - 110	<2.0	uS/cm		
C068173	Alkalinity (PP as CaCO3)	2025/08/30					<1.0	mg/L	NC	20
C068173	Alkalinity (Total as CaCO3)	2025/08/30			97	80 - 120	<1.0	mg/L	0.39	20
C068173	Bicarbonate (HCO3)	2025/08/30					<1.0	mg/L	0.39	20
C068173	Carbonate (CO3)	2025/08/30					<1.0	mg/L	NC	20
C068173	Hydroxide (OH)	2025/08/30					<1.0	mg/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C068179	Dissolved Fluoride (F)	2025/08/30	108	80 - 120	106	80 - 120	<0.050	mg/L	NC	20
C068341	Total Suspended Solids	2025/09/02	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
C068358	Total Suspended Solids	2025/09/02	104	80 - 120	101	80 - 120	<1.0	mg/L	0	20
C068717	Nitrate plus Nitrite (N)	2025/08/30	113	80 - 120	109	80 - 120	<0.020	mg/L	5.6	25
C068718	Nitrite (N)	2025/08/30	110	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20
C068719	Nitrate plus Nitrite (N)	2025/08/30	114	80 - 120	108	80 - 120	<0.020	mg/L	NC	25
C068720	Nitrite (N)	2025/08/30	110	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
C068723	Nitrate plus Nitrite (N)	2025/08/30	115	80 - 120	111	80 - 120	<0.020	mg/L	NC	25
C068724	Nitrite (N)	2025/08/30	104	80 - 120	106	80 - 120	<0.0050	mg/L	NC	20
C069863	Total Phosphorus (P)	2025/09/03	NC	N/A	107	80 - 120	<0.0030	mg/L	1.0	20
C069869	Total Phosphorus (P)	2025/09/03	109	N/A	109	80 - 120	<0.0030	mg/L	NC	20
C069874	Total Phosphorus (P)	2025/09/03	98	N/A	110	80 - 120	<0.0030	mg/L	6.0	20
C069915	Dissolved Phosphorus (P)	2025/09/03	101	N/A	105	80 - 120	<0.0030	mg/L	NC	20
C069917	Dissolved Phosphorus (P)	2025/09/03	107	N/A	113	80 - 120	<0.0030	mg/L	NC	20
C070164	Dissolved Organic Carbon (C)	2025/09/02	115	80 - 120	109	80 - 120	<0.50	mg/L	NC	20
C070407	Total Nitrogen (N)	2025/09/03	107	80 - 120	102	80 - 120	<0.020	mg/L	17	20
C070419	Dissolved Fluoride (F)	2025/09/03	97	80 - 120	94	80 - 120	<0.050	mg/L	NC	20
C070425	Dissolved Fluoride (F)	2025/09/03			94	80 - 120	<0.050	mg/L		
C070462	Dissolved Mercury (Hg)	2025/09/03	112	80 - 120	107	80 - 120	<0.0019	ug/L	NC	20
C070611	Total Nitrogen (N)	2025/09/04	105	80 - 120	101	80 - 120	<0.020	mg/L	1.9	20
C070662	Total Nitrogen (N)	2025/09/03	103	80 - 120	102	80 - 120	<0.020	mg/L	11	20
C071964	Total Mercury (Hg)	2025/09/03	107	80 - 120	99	80 - 120	<0.0019	ug/L		
C072396	Total Ammonia (N)	2025/09/04	97	80 - 120	105	80 - 120	<0.015	mg/L	20	20
C073852	Total Aluminum (Al)	2025/09/04	105	80 - 120	106	80 - 120	<0.50	ug/L	NC	20
C073852	Total Antimony (Sb)	2025/09/04	104	80 - 120	108	80 - 120	<0.020	ug/L	NC	20
C073852	Total Arsenic (As)	2025/09/04	105	80 - 120	105	80 - 120	<0.020	ug/L	NC	20
C073852	Total Barium (Ba)	2025/09/04	102	80 - 120	106	80 - 120	<0.020	ug/L	NC	20
C073852	Total Beryllium (Be)	2025/09/04	99	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
C073852	Total Bismuth (Bi)	2025/09/04	103	80 - 120	105	80 - 120	<0.0050	ug/L	NC	20
C073852	Total Boron (B)	2025/09/04	102	80 - 120	107	80 - 120	<10	ug/L	NC	20
C073852	Total Cadmium (Cd)	2025/09/04	104	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C073852	Total Chromium (Cr)	2025/09/04	102	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
C073852	Total Cobalt (Co)	2025/09/04	102	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
C073852	Total Copper (Cu)	2025/09/04	100	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
C073852	Total Iron (Fe)	2025/09/04	106	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
C073852	Total Lead (Pb)	2025/09/04	101	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
C073852	Total Lithium (Li)	2025/09/04	97	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
C073852	Total Manganese (Mn)	2025/09/04	102	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
C073852	Total Molybdenum (Mo)	2025/09/04	105	80 - 120	109	80 - 120	<0.050	ug/L	NC	20
C073852	Total Nickel (Ni)	2025/09/04	101	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
C073852	Total Selenium (Se)	2025/09/04	103	80 - 120	102	80 - 120	<0.040	ug/L	NC	20
C073852	Total Silicon (Si)	2025/09/04	111	80 - 120	107	80 - 120	<50	ug/L	NC	20
C073852	Total Silver (Ag)	2025/09/04	103	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
C073852	Total Strontium (Sr)	2025/09/04	104	80 - 120	104	80 - 120	<0.050	ug/L	9.5	20
C073852	Total Thallium (Tl)	2025/09/04	104	80 - 120	105	80 - 120	<0.0020	ug/L	NC	20
C073852	Total Tin (Sn)	2025/09/04	103	80 - 120	107	80 - 120	<0.20	ug/L	NC	20
C073852	Total Titanium (Ti)	2025/09/04	104	80 - 120	106	80 - 120	<0.50	ug/L	NC	20
C073852	Total Uranium (U)	2025/09/04	105	80 - 120	107	80 - 120	<0.0020	ug/L	NC	20
C073852	Total Vanadium (V)	2025/09/04	103	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
C073852	Total Zinc (Zn)	2025/09/04	105	80 - 120	110	80 - 120	<0.10	ug/L	NC	20
C073852	Total Zirconium (Zr)	2025/09/04	107	80 - 120	105	80 - 120	<0.10	ug/L	NC	20
C074007	Total Aluminum (Al)	2025/09/05	85	80 - 120	84	80 - 120	<3.0	ug/L	1.7	20
C074007	Total Antimony (Sb)	2025/09/05	105	80 - 120	104	80 - 120	<0.020	ug/L	0.83	20
C074007	Total Arsenic (As)	2025/09/05	97	80 - 120	96	80 - 120	<0.020	ug/L	2.8	20
C074007	Total Barium (Ba)	2025/09/05	99	80 - 120	98	80 - 120	<0.050	ug/L	1.1	20
C074007	Total Beryllium (Be)	2025/09/05	104	80 - 120	101	80 - 120	<0.010	ug/L	12	20
C074007	Total Bismuth (Bi)	2025/09/05	98	80 - 120	96	80 - 120	<0.010	ug/L	NC	20
C074007	Total Boron (B)	2025/09/05	94	80 - 120	93	80 - 120	<10	ug/L	NC	20
C074007	Total Cadmium (Cd)	2025/09/05	103	80 - 120	102	80 - 120	<0.0050	ug/L	0.53	20
C074007	Total Chromium (Cr)	2025/09/05	101	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
C074007	Total Cobalt (Co)	2025/09/05	96	80 - 120	95	80 - 120	<0.010	ug/L	3.2	20
C074007	Total Copper (Cu)	2025/09/05	99	80 - 120	98	80 - 120	<0.10	ug/L	2.5	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C074007	Total Iron (Fe)	2025/09/05	105	80 - 120	103	80 - 120	<5.0	ug/L	0.75	20
C074007	Total Lead (Pb)	2025/09/05	97	80 - 120	94	80 - 120	<0.020	ug/L	3.8	20
C074007	Total Lithium (Li)	2025/09/05	114	80 - 120	112	80 - 120	<0.50	ug/L	2.3	20
C074007	Total Manganese (Mn)	2025/09/05	98	80 - 120	97	80 - 120	<0.10	ug/L	2.8	20
C074007	Total Molybdenum (Mo)	2025/09/05	104	80 - 120	100	80 - 120	<0.050	ug/L	2.4	20
C074007	Total Nickel (Ni)	2025/09/05	100	80 - 120	99	80 - 120	<0.10	ug/L	2.8	20
C074007	Total Phosphorus (P)	2025/09/05	91	80 - 120	87	80 - 120	<5.0	ug/L	NC	20
C074007	Total Selenium (Se)	2025/09/05	97	80 - 120	95	80 - 120	<0.040	ug/L	5.9	20
C074007	Total Silicon (Si)	2025/09/05	99	80 - 120	100	80 - 120	<50	ug/L	1.4	20
C074007	Total Silver (Ag)	2025/09/05	101	80 - 120	100	80 - 120	<0.010	ug/L	6.8	20
C074007	Total Strontium (Sr)	2025/09/05	92	80 - 120	93	80 - 120	<0.050	ug/L	0.81	20
C074007	Total Thallium (Tl)	2025/09/05	102	80 - 120	98	80 - 120	<0.0020	ug/L	8.4	20
C074007	Total Tin (Sn)	2025/09/05	104	80 - 120	106	80 - 120	<0.20	ug/L	NC	20
C074007	Total Titanium (Ti)	2025/09/05	102	80 - 120	99	80 - 120	<2.0	ug/L	NC	20
C074007	Total Uranium (U)	2025/09/05	107	80 - 120	102	80 - 120	<0.0050	ug/L	2.5	20
C074007	Total Vanadium (V)	2025/09/05	104	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
C074007	Total Zinc (Zn)	2025/09/05	102	80 - 120	101	80 - 120	<1.0	ug/L	1.0	20
C074007	Total Zirconium (Zr)	2025/09/05	101	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
C074011	Total Aluminum (Al)	2025/09/05	92	80 - 120	85	80 - 120	<3.0	ug/L	7.7	20
C074011	Total Antimony (Sb)	2025/09/05	106	80 - 120	103	80 - 120	<0.020	ug/L	4.3	20
C074011	Total Arsenic (As)	2025/09/05	99	80 - 120	95	80 - 120	<0.020	ug/L	0.66	20
C074011	Total Barium (Ba)	2025/09/05	100	80 - 120	97	80 - 120	<0.050	ug/L	0.42	20
C074011	Total Beryllium (Be)	2025/09/05	104	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
C074011	Total Bismuth (Bi)	2025/09/05	98	80 - 120	95	80 - 120	<0.010	ug/L	NC	20
C074011	Total Boron (B)	2025/09/05	94	80 - 120	92	80 - 120	<10	ug/L	NC	20
C074011	Total Cadmium (Cd)	2025/09/05	104	80 - 120	100	80 - 120	<0.0050	ug/L	5.4	20
C074011	Total Chromium (Cr)	2025/09/05	101	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
C074011	Total Cobalt (Co)	2025/09/05	97	80 - 120	93	80 - 120	<0.010	ug/L	9.7	20
C074011	Total Copper (Cu)	2025/09/05	105	80 - 120	95	80 - 120	<0.10	ug/L	12	20
C074011	Total Iron (Fe)	2025/09/05	105	80 - 120	100	80 - 120	<5.0	ug/L	2.9	20
C074011	Total Lead (Pb)	2025/09/05	96	80 - 120	94	80 - 120	<0.020	ug/L	9.0	20

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C074011	Total Lithium (Li)	2025/09/05	110	80 - 120	110	80 - 120	<0.50	ug/L	12	20
C074011	Total Manganese (Mn)	2025/09/05	100	80 - 120	96	80 - 120	<0.10	ug/L	0.77	20
C074011	Total Molybdenum (Mo)	2025/09/05	107	80 - 120	99	80 - 120	<0.050	ug/L	1.7	20
C074011	Total Nickel (Ni)	2025/09/05	99	80 - 120	97	80 - 120	<0.10	ug/L	6.9	20
C074011	Total Phosphorus (P)	2025/09/05	92	80 - 120	87	80 - 120	<5.0	ug/L	NC	20
C074011	Total Selenium (Se)	2025/09/05	97	80 - 120	96	80 - 120	<0.040	ug/L	5.5	20
C074011	Total Silicon (Si)	2025/09/05	99	80 - 120	96	80 - 120	<50	ug/L	3.6	20
C074011	Total Silver (Ag)	2025/09/05	104	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
C074011	Total Strontium (Sr)	2025/09/05	NC	80 - 120	93	80 - 120	<0.050	ug/L	3.6	20
C074011	Total Thallium (Tl)	2025/09/05	102	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
C074011	Total Tin (Sn)	2025/09/05	104	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
C074011	Total Titanium (Ti)	2025/09/05	102	80 - 120	98	80 - 120	<2.0	ug/L	NC	20
C074011	Total Uranium (U)	2025/09/05	104	80 - 120	101	80 - 120	<0.0050	ug/L	3.1	20
C074011	Total Vanadium (V)	2025/09/05	104	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
C074011	Total Zinc (Zn)	2025/09/05	102	80 - 120	100	80 - 120	<1.0	ug/L	2.7	20
C074011	Total Zirconium (Zr)	2025/09/05	104	80 - 120	98	80 - 120	<0.10	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Method blank exceeds acceptance limits- 2X RDL acceptable for low level metals determination.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

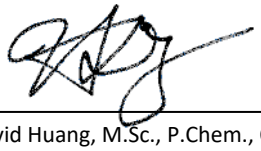
Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C573671
Report Date: 2025/09/05

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR430
Sampler Initials: ER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Bureau Veritas Certified by David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

COOLER OBSERVATIONS:

BV RECEIPT#:

	CUSTODY SEAL	YES	NO	COOLER ID			
1	PRESENT		/	TEMP	10 (1)	9 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
2	PRESENT		/	TEMP	10 (1)	9 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
3	PRESENT		/	TEMP	9 (1)	9 (2)	10 (3)
	INTACT		/				
	ICE PRESENT	/					
4	PRESENT		/	TEMP	9 (1)	10 (2)	10 (3)
	INTACT		/				
	ICE PRESENT	/					
5	PRESENT		/	TEMP	9 (1)	9 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
6	PRESENT		/	TEMP	6 (1)	9 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
7	PRESENT		/	TEMP	9 (1)	9 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
8	PRESENT		/	TEMP	8 (1)	8 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
9	PRESENT		/	TEMP	10 (1)	11 (2)	10 (3)
	INTACT		/				
	ICE PRESENT	/					
10	PRESENT		/	TEMP	9 (1)	9 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
11	PRESENT		/	TEMP	10 (1)	10 (2)	10 (3)
	INTACT		/				
	ICE PRESENT	/					
12	PRESENT		/	TEMP	11 (1)	11 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
13	PRESENT		/	TEMP	9 (1)	9 (2)	8 (3)
	INTACT		/				
	ICE PRESENT	/					
14	PRESENT		/	TEMP	8 (1)	8 (2)	8 (3)
	INTACT		/				
	ICE PRESENT	/					
15	PRESENT		/	TEMP	12 (1)	9 (2)	9 (3)
	INTACT		/				
	ICE PRESENT	/					
16	PRESENT		/	TEMP	10 (1)	10 (2)	10 (3)
	INTACT		/				
	ICE PRESENT	/					
17	PRESENT		/	TEMP	8 (1)	11 (2)	7 (3)
	INTACT		/				
	ICE PRESENT	/					
18	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
19	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
20	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
21	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
22	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
23	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
24	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
25	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
26	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
27	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
28	PRESENT			TEMP	/	(1)	(2) (3)
	INTACT						
	ICE PRESENT						
29	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						
30	PRESENT			TEMP	(1)	(2)	(3)
	INTACT						
	ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
[signature]	Amr Amer	2025/08/26	12:45

If Custody seal condition and presence of ice is the same for all, use these boxes:	CUSTODY SEAL	YES	NO
	PRESENT		
	INTACT		
	ICE PRESENT		

C573671
2025/08/26 17:20

Custody Tracking Form DCM

W112020-H

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: W10/TUL-00
Last Sample: 25-08-TB02
Sample Count: 39

Relinquished By				Received By			
Diana Gawol	DG	Date	2025/08/25	AMR AMER		Date	2025/08
		Time (24 HR)	12:00			Time (24 HR)	
		Date				Date	
		Time (24 HR)				Time (24 HR)	
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print): Éliane Roy

of Coolers/Pkgs: 5

Immediate Test ☐ Rush ☐ Micro ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
N	N	X	10	9	9

MVAN-2025-08-1777

See ACR

COR FCD-00383/5

Page 1 of 1

eCOC: W112020

Project Information:	C573671
Job Received:	2025/08/26 17:20
Expected TAT:	Standard TAT
Expected Arrival:	2025/08/27 09:00
Submitted By:	Eliane Roy
Submitted To:	Burnaby ENV: 4606 Canada Way

Invoice Information

Attn: Irene Tuite
SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse , YT , Y1A 1N2
Email to:
irene.tuite@pecg.ca

Report Information

Attn: Irene Tuite
SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse , YT , Y1A 1N2
Email to:
irene.tuite@pecg.ca
eroy@slrconsulting.com
diana.gawol@slrconsulting.com

Project Information

Quote #:	C50955
PO/AFE#:	WHR430
Project #:	234.030071.00002
Site Location:	TULSEQUAH CHIEF, BC

Analytical Summary

A: Standard TAT

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Routine Water- LL D.Metals	Ammonia-N (Total)	Carbon (DOC)	Fluoride	Nitrogen (Total)	Orthophosphate by Automated Analyzer	Total Phosphorus	Total Phosphorus Dissolved client FF/FP	Total Suspended Solids (NFR)
W10/TUL-00	1	2025/08/24 09:40	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
TUL-06/SW16-3	2	2025/08/22 17:00	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW21-2	3	2025/08/23 16:30	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW24-2	4	2025/08/23 12:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
TUL-03	5	2025/08/24 13:30	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
TUL-05	6	2025/08/24 09:10	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
W27	7	2025/08/24 12:10	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
WTP Pond	8	2025/08/21 17:30	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SE-2	9	2025/08/23 08:50	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
5200 Level Adit	10	2025/08/23 09:15	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
5400 Level Adit	11	2025/08/23 10:00	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
5900 Level Adit	12	2025/08/23 15:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A

eCOC: W112020

Project Information: C573671
Job Received: 2025/08/26 17:20
Expected TAT: Standard TAT
Expected Arrival: 2025/08/27 09:00
Submitted By: Eliane Roy
Submitted To: Burnaby ENV: 4606 Canada Way

A: Standard TAT

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Routine Water- LL D.Metals	Ammonia-N (Total)	Carbon (DOC)	Fluoride	Nitrogen (Total)	Orthophosphate by Automated Analyzer	Total Phosphorus	Total Phosphorus Dissolved client FF/FP	Total Suspended Solids (NFR)
6400 Seep	13	2025/08/23 15:00	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
CC-02	14	2025/08/23 11:30	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
CC-04	15	2025/08/23 14:00	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW24-1	16	2025/08/24 08:40	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW24-11	17	2025/08/22 15:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
W11	18	2025/08/21 17:10	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
W44	19	2025/08/22 15:40	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
W45	20	2025/08/22 16:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
W46/SW21-4	21	2025/08/24 08:50	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW16-8	22	2025/08/21 13:50	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW21-5	23	2025/08/21 12:50	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW24-4	24	2025/08/21 15:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
TUL-09/W51	25	2025/08/22 14:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW24-6	26	2025/08/22 09:40	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW24-7	27	2025/08/22 11:10	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
SW24-8	28	2025/08/22 12:30	SURFACE WATER	11	A	A	A	A	A	A	A	A	A

eCOC: W112020

Project Information:	C573671
Job Received:	2025/08/26 17:20
Expected TAT:	Standard TAT
Expected Arrival:	2025/08/27 09:00
Submitted By:	Eliane Roy
Submitted To:	Burnaby ENV: 4606 Canada Way

A: Standard TAT

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Routine Water- LL D.Metals	Ammonia-N (Total)	Carbon (DOC)	Fluoride	Nitrogen (Total)	Orthophosphate by Automated Analyzer	Total Phosphorus	Total Phosphorus Dissolved client FF/FP	Total Suspended Solids (NFR)
SW24-10	29	2025/08/22 13:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
TUL-12	30	2025/08/22 13:40	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
W32/TUL-15	31	2025/08/22 11:30	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-DUP02	32	2025/08/22 09:45	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-DUP03	33	2025/08/22 15:20	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-DUP04	34	2025/08/23 10:00	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-DUP05	35	2025/08/24 08:40	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-FB02	36	2025/08/22 10:00	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-FB03	37	2025/08/23 10:10	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-FB04	38	2025/08/24 12:30	SURFACE WATER	11	A	A	A	A	A	A	A	A	A
25-08-TB02	39	2025/08/25 14:00	SURFACE WATER	11	A	A	A	A	A	A	A	A	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 39

Your P.O. #: WHR438
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 114300

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/10/01
Report #: R3716665
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C580567
Received: 2025/09/23, 13:09

Sample Matrix: Surface Water
Samples Received: 36

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	10	N/A	2025/09/25	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	25	N/A	2025/09/26	BBY6SOP-00026	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH	1	N/A	2025/09/30	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	20	N/A	2025/09/26	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry	16	N/A	2025/09/29	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Carbon (DOC) (1)	20	N/A	2025/09/24	BBY6SOP-00053	SM 24 5310 B m
Carbon (DOC) (1)	16	N/A	2025/09/25	BBY6SOP-00053	SM 24 5310 B m
Conductivity @25C	10	N/A	2025/09/25	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	25	N/A	2025/09/26	BBY6SOP-00026	SM 24 2510 B m
Conductivity @25C	1	N/A	2025/09/30	BBY6SOP-00026	SM 24 2510 B m
Fluoride	1	N/A	2025/10/01	BBY6SOP-00037	SM 24 4500-F C m
Fluoride	11	N/A	2025/09/26	BBY6SOP-00037	SM 24 4500-F C m
Fluoride	24	N/A	2025/09/27	BBY6SOP-00037	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (2)	10	N/A	2025/10/01	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	26	N/A	2025/09/29	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	36	N/A	2025/10/01	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (3)	7	2025/09/25	2025/09/26	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Dissolved) by CV (3)	20	2025/09/25	2025/09/27	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Dissolved) by CV (3)	9	2025/09/27	2025/09/27	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	14	2025/09/25	2025/09/26	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	20	2025/09/25	2025/09/27	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	2	2025/09/29	2025/09/29	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Ion Ratio (Cation sum/Anion sum)	36	N/A	2025/10/01	BBY WI-00033	Auto Calc
Ion Balance	36	N/A	2025/10/01	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	36	N/A	2025/10/01	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (lab filter) (4)	16	N/A	2025/09/29	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (lab filter) (4)	20	N/A	2025/09/30	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	24	2025/09/25	2025/09/26	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR438
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 114300

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/10/01
Report #: R3716665
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C580567
Received: 2025/09/23, 13:09

Sample Matrix: Surface Water
Samples Received: 36

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICPMS Digested LL (total)	10	2025/09/25	2025/09/29	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	10	N/A	2025/10/01	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	26	N/A	2025/09/29	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	2	N/A	2025/09/29	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	36	N/A	2025/09/29	BBY6SOP-00016	SM 24 4500-N C m
Ammonia-N (Total)	35	N/A	2025/09/26	AB SOP-00007	SM 24 4500 NH3 A G m
Ammonia-N (Total)	1	N/A	2025/09/29	AB SOP-00007	SM 24 4500 NH3 A G m
Nitrate + Nitrite (N)	3	N/A	2025/10/01	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrate + Nitrite (N)	22	N/A	2025/09/25	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrate + Nitrite (N)	11	N/A	2025/09/26	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	2	N/A	2025/10/01	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrite (N) Regular Level Water	22	N/A	2025/09/25	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrite (N) Regular Level Water	12	N/A	2025/09/26	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	2	N/A	2025/10/01	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N)	1	N/A	2025/09/25	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N)	21	N/A	2025/09/26	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N)	12	N/A	2025/09/29	BBY WI-00033	Auto Calc
pH @25°C (5)	10	N/A	2025/09/25	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (5)	25	N/A	2025/09/26	BBY6SOP-00026	SM 24 4500-H+ B m
pH @25°C (5)	1	N/A	2025/09/30	BBY6SOP-00026	SM 24 4500-H+ B m
Orthophosphate by Automated Analyzer (6)	1	N/A	2025/10/01	BBY6SOP-00013	SM 24 4500-P E m
Orthophosphate by Automated Analyzer (6)	35	N/A	2025/09/25	BBY6SOP-00013	SM 24 4500-P E m
Total Dissolved Solids (Calculated)	36	N/A	2025/10/01	BBY WI-00033	Calculated Parameter
Total Kjeldahl Nitrogen (Total)	2	N/A	2025/10/01	BBY WI-00033	Auto Calc
Total Kjeldahl Nitrogen (Total)	34	N/A	2025/09/29	BBY WI-00033	Auto Calc
Total Phosphorus Dissolved client FF/FP (7)	36	2025/09/26	2025/09/27	BBY6SOP-00013	SM 24 4500-P E m
Total Phosphorus	36	2025/09/26	2025/09/27	BBY6SOP-00013	SM 24 4500-P E m
Total Suspended Solids (NFR)	9	2025/09/24	2025/09/25	BBY6SOP-00034	SM 24 2540 D m
Total Suspended Solids (NFR)	15	2025/09/25	2025/09/26	BBY6SOP-00034	SM 24 2540 D m
Total Suspended Solids (NFR)	12	2025/09/26	2025/09/29	BBY6SOP-00034	SM 24 2540 D m

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR438
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 114300

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/10/01
Report #: R3716665
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C580567
Received: 2025/09/23, 13:09

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(3) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(4) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.
For Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(6) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
(7) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

Your P.O. #: WHR438
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 114300

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
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CANADA Y1A 1N2

Report Date: 2025/10/01
Report #: R3716665
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C580567
Received: 2025/09/23, 13:09

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
01 Oct 2025 18:06:52

Please direct all questions regarding this Certificate of Analysis to:
Nahed Amer, Key Account Specialist
Email: Nahed.AMER@bureauveritas.com
Phone# (604) 734 7276

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN291		DTN292		DTN293		
Sampling Date		2025/09/19 11:15		2025/09/18 09:30		2025/09/18 10:30		
COC Number		114300		114300		114300		
	UNITS	W10/TUL-00	QC Batch	TUL-06/SW16-3	QC Batch	SW21-2	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C101384	<0.0050	C101008	<0.0050	0.0050	C101008
Calculated Parameters								
Ion Balance (% Difference)	%	2.9	C097776	3.1	C097776	4.3	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.94	C097772	0.94	C097772	0.91	0.010	C097772
Nitrate (N)	mg/L	0.033	C097979	0.050	C097979	0.034	0.020	C097979
Calculated Total Dissolved Solids	mg/L	35	C097993	37	C097993	34	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.024	C097129	0.025	C097129	0.039	0.020	C097129
Misc. Inorganics								
Conductivity	uS/cm	67	C101014	71	C100731	65	2.0	C100731
Dissolved Organic Carbon (C)	mg/L	<0.50	C099148	<0.50	C099148	<0.50	0.50	C099148
pH	pH	6.85	C101015	6.90	C100733	6.82	N/A	C100733
Total Suspended Solids	mg/L	54	C100257	75	C100256	93	1.0	C100256
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C101011	<1.0	C100719	<1.0	1.0	C100719
Alkalinity (Total as CaCO3)	mg/L	21	C101011	22	C100719	21	1.0	C100719
Bicarbonate (HCO3)	mg/L	25	C101011	27	C100719	25	1.0	C100719
Carbonate (CO3)	mg/L	<1.0	C101011	<1.0	C100719	<1.0	1.0	C100719
Fluoride (F)	mg/L	<0.050	C103372	<0.050	C102135	<0.050	0.050	C102135
Hydroxide (OH)	mg/L	<1.0	C101011	<1.0	C100719	<1.0	1.0	C100719
Chloride (Cl)	mg/L	<1.0	C102923	<1.0	C104523	<1.0	1.0	C104523
Sulphate (SO4)	mg/L	11	C102923	11	C104523	10	1.0	C104523
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C099759	<0.015	C099759	0.015	0.015	C099732
Orthophosphate (P)	mg/L	<0.0030	C101233	<0.0030	C101225	<0.0030	0.0030	C101225
Dissolved Phosphorus (P)	mg/L	<0.0030	C102133	<0.0030	C102133	<0.0030	0.0030	C102133
Total Phosphorus (P)	mg/L	0.060	C102081	0.089	C102081	0.11	0.0030	C102081
Nitrate plus Nitrite (N)	mg/L	0.033	C101354	0.050	C101003	0.034	0.020	C101003
Total Nitrogen (N)	mg/L	0.057	C100348	0.075	C100348	0.074	0.020	C100348

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN294		DTN295		DTN296		DTN297		
Sampling Date		2025/09/18 17:40		2025/09/19 09:45		2025/09/19 09:15		2025/09/18 12:10		
COC Number		114300		114300		114300		114300		
	UNITS	SW24-2	QC Batch	TUL-03	QC Batch	TUL-05	QC Batch	W27	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C101008	<0.0050	C100971	<0.0050	C100971	<0.0050	0.0050	C100971
Calculated Parameters										
Ion Balance (% Difference)	%	1.2	C097776	2.0	C097776	3.8	C097776	1.3	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.97	C097772	0.96	C097772	0.92	C097772	0.97	0.010	C097772
Nitrate (N)	mg/L	0.211	C097979	0.027	C097979	0.030	C097979	0.057	0.020	C097979
Calculated Total Dissolved Solids	mg/L	65	C097993	35	C097993	36	C097993	75	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.053	C097129	<0.020	C097129	<0.020	C097129	0.048	0.020	C097129
Misc. Inorganics										
Conductivity	uS/cm	130	C100990	68	C100731	69	C101014	140	2.0	C101014
Dissolved Organic Carbon (C)	mg/L	<0.50	C099148	<0.50	C099148	<0.50	C099148	0.70	0.50	C099148
pH	pH	7.77	C100991	6.86	C100733	6.77	C101015	7.40	N/A	C101015
Total Suspended Solids	mg/L	<1.0	C100256	42	C101834	21	C101828	74	1.0	C100256
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C100987	<1.0	C100719	<1.0	C101011	<1.0	1.0	C101011
Alkalinity (Total as CaCO3)	mg/L	57	C100987	20	C100719	22	C101011	43	1.0	C101011
Bicarbonate (HCO3)	mg/L	70	C100987	25	C100719	26	C101011	53	1.0	C101011
Carbonate (CO3)	mg/L	<1.0	C100987	<1.0	C100719	<1.0	C101011	<1.0	1.0	C101011
Fluoride (F)	mg/L	<0.050	C102135	<0.050	C102135	<0.050	C102135	0.14	0.050	C102135
Hydroxide (OH)	mg/L	<1.0	C100987	<1.0	C100719	<1.0	C101011	<1.0	1.0	C101011
Chloride (Cl)	mg/L	<1.0	C104523	<1.0	C104523	<1.0	C104523	<1.0	1.0	C104523
Sulphate (SO4)	mg/L	5.0	C104523	11	C104523	11	C104523	23	1.0	C104523
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C104464	<0.015	C099759	<0.015	C099759	<0.015	0.015	C099759
Orthophosphate (P)	mg/L	<0.0030	C101225	<0.0030	C101225	<0.0030	C101225	<0.0030	0.0030	C101225
Dissolved Phosphorus (P)	mg/L	<0.0030	C102133	<0.0030	C102133	<0.0030	C102133	<0.0030	0.0030	C102133
Total Phosphorus (P)	mg/L	<0.0030	C102081	0.057	C102081	0.058	C102081	0.10	0.0030	C102081
Nitrate plus Nitrite (N)	mg/L	0.211	C101003	0.027	C100968	0.030	C100968	0.057	0.020	C100968
Total Nitrogen (N)	mg/L	0.264	C100349	0.038	C100349	0.047	C100349	0.105	0.020	C100349

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN298		DTN299			DTN300		
Sampling Date		2025/09/18 14:00		2025/09/18 14:20			2025/09/18 15:05		
COC Number		114300		114300			114300		
	UNITS	WTP Pond	QC Batch	SE-2	RDL	QC Batch	5200 Level Adit	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	C100971	<0.0050	0.0050	C100971	0.0980	0.0050	C107573
Calculated Parameters									
Ion Balance (% Difference)	%	0.60	C097776	0.94	N/A	C097776	1.9	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.99	C097772	1.0	0.010	C097772	1.0	0.010	C097772
Nitrate (N)	mg/L	<0.020	C097979	0.034	0.020	C097979	<0.020	0.020	C102441
Calculated Total Dissolved Solids	mg/L	290	C097993	370	5.0	C097993	930	10	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.16	C097129	0.18	0.020	C097129	0.21	0.020	C097129
Misc. Inorganics									
Conductivity	uS/cm	480	C101014	710	2.0	C101014	1700	2.0	C101014
Dissolved Organic Carbon (C)	mg/L	1.5	C099148	<0.50	0.50	C099148	<0.50	0.50	C099148
pH	pH	7.54	C101015	3.63	N/A	C101015	2.98	N/A	C101015
Total Suspended Solids	mg/L	2.0	C100256	21	1.0	C100256	14	1.0	C100256
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	C101011	<1.0	1.0	C101011	<1.0	1.0	C101011
Alkalinity (Total as CaCO3)	mg/L	55	C101011	<1.0	1.0	C101011	<1.0	1.0	C101011
Bicarbonate (HCO3)	mg/L	67	C101011	<1.0	1.0	C101011	<1.0	1.0	C101011
Carbonate (CO3)	mg/L	<1.0	C101011	<1.0	1.0	C101011	<1.0	1.0	C101011
Fluoride (F)	mg/L	0.11	C102135	0.56	0.050	C102135	1.2	0.050	C102135
Hydroxide (OH)	mg/L	<1.0	C101011	<1.0	1.0	C101011	<1.0	1.0	C101011
Chloride (Cl)	mg/L	<1.0	C104523	6.9	1.0	C104523	<1.0	1.0	C104523
Sulphate (SO4)	mg/L	170	C104523	280	5.0	C104523	740	10	C104523
Nutrients									
Total Ammonia (N)	mg/L	<0.015	C099732	<0.015	0.015	C099759	0.17	0.015	C099732
Orthophosphate (P)	mg/L	0.0070	C101225	<0.0030	0.0030	C101225	0.0062	0.0030	C101225
Dissolved Phosphorus (P)	mg/L	0.014	C102133	<0.0030	0.0030	C102133	0.037	0.0030	C102133
Total Phosphorus (P)	mg/L	0.039	C102081	0.031	0.0030	C102081	0.044	0.0030	C102081
Nitrate plus Nitrite (N)	mg/L	<0.020	C100968	0.034	0.020	C100968	<0.020	0.020	C107527
Total Nitrogen (N)	mg/L	0.160	C100349	0.209	0.020	C100349	0.209	0.020	C100349

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN301			DTN302		DTN303		
Sampling Date		2025/09/18 16:45			2025/09/18 11:45		2025/09/18 17:10		
COC Number		114300			114300		114300		
	UNITS	5400 Level Adit	RDL	QC Batch	SW16-1	QC Batch	CC-02	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	0.0050	C101008	<0.0050	C101008	<0.0050	0.0050	C101008
Calculated Parameters									
Ion Balance (% Difference)	%	3.3	N/A	C097776	1.3	C097776	1.3	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	1.1	0.010	C097772	0.97	C097772	0.96	0.010	C097772
Nitrate (N)	mg/L	0.062	0.020	C097979	0.036	C097979	0.233	0.020	C097979
Calculated Total Dissolved Solids	mg/L	260	5.0	C097993	48	C097993	68	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.16	0.020	C097129	0.026	C097129	0.030	0.020	C097129
Misc. Inorganics									
Conductivity	uS/cm	500	2.0	C101014	92	C101014	130	2.0	C101014
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	C099148	<0.50	C099148	<0.50	0.50	C099148
pH	pH	4.41	N/A	C101015	6.82	C101015	7.58	N/A	C101015
Total Suspended Solids	mg/L	27	1.0	C100256	48	C100256	<1.0	1.0	C100256
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	C101011	<1.0	C101011	<1.0	1.0	C101011
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	C101011	28	C101011	56	1.0	C101011
Bicarbonate (HCO3)	mg/L	<1.0	1.0	C101011	34	C101011	68	1.0	C101011
Carbonate (CO3)	mg/L	<1.0	1.0	C101011	<1.0	C101011	<1.0	1.0	C101011
Fluoride (F)	mg/L	0.49	0.050	C102135	0.077	C102135	0.074	0.050	C103372
Hydroxide (OH)	mg/L	<1.0	1.0	C101011	<1.0	C101011	<1.0	1.0	C101011
Chloride (Cl)	mg/L	11	1.0	C102945	<1.0	C102945	<1.0	1.0	C102945
Sulphate (SO4)	mg/L	190	5.0	C102945	15	C102945	8.4	1.0	C102945
Nutrients									
Total Ammonia (N)	mg/L	<0.015	0.015	C099732	<0.015	C099759	<0.015	0.015	C099732
Orthophosphate (P)	mg/L	<0.0030	0.0030	C101225	<0.0030	C101225	<0.0030	0.0030	C101225
Dissolved Phosphorus (P)	mg/L	<0.0030	0.0030	C102133	<0.0030	C102133	<0.0030	0.0030	C102133
Total Phosphorus (P)	mg/L	0.11	0.0030	C102081	0.076	C102081	<0.0030	0.0030	C102081
Nitrate plus Nitrite (N)	mg/L	0.062	0.020	C101003	0.036	C101003	0.233	0.020	C101003
Total Nitrogen (N)	mg/L	0.223	0.020	C100349	0.063	C100349	0.263	0.020	C100349

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN304		DTN305		DTN306		DTN307		
Sampling Date		2025/09/17 16:30		2025/09/17 14:30		2025/09/17 11:50		2025/09/16 15:00		
COC Number		114300		114300		114300		114300		
	UNITS	SW24-1	QC Batch	SW24-11	QC Batch	W11	QC Batch	W44	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C101008	<0.0050	C101008	<0.0050	C101008	<0.0050	0.0050	C101008
Calculated Parameters										
Ion Balance (% Difference)	%	2.8	C097776	2.9	C097776	6.7	C097776	1.0	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.94	C097772	0.94	C097772	1.1	C097772	0.98	0.010	C097772
Nitrate (N)	mg/L	0.025	C097979	0.031	C096962	0.047	C096962	0.026	0.020	C096962
Calculated Total Dissolved Solids	mg/L	35	C097993	41	C097993	150	C097993	97	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	C097129	<0.020	C097129	0.049	C097129	<0.020	0.020	C097129
Misc. Inorganics										
Conductivity	uS/cm	68	C101014	79	C100731	300	C100731	180	2.0	C100731
Dissolved Organic Carbon (C)	mg/L	<0.50	C099148	<0.50	C099152	<0.50	C099152	<0.50	0.50	C099152
pH	pH	6.86	C101015	6.92	C100733	6.06	C100733	7.64	N/A	C100733
Total Suspended Solids	mg/L	44	C099416	33	C099416	6.8	C099416	<1.0	1.0	C101834
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C101011	<1.0	C100719	<1.0	C100719	<1.0	1.0	C100719
Alkalinity (Total as CaCO3)	mg/L	20	C101011	24	C100719	6.4	C100719	65	1.0	C100719
Bicarbonate (HCO3)	mg/L	25	C101011	29	C100719	7.8	C100719	79	1.0	C100719
Carbonate (CO3)	mg/L	<1.0	C101011	<1.0	C100719	<1.0	C100719	<1.0	1.0	C100719
Fluoride (F)	mg/L	0.093	C103372	<0.050	C102998	0.11	C102998	0.075	0.050	C102998
Hydroxide (OH)	mg/L	<1.0	C101011	<1.0	C100719	<1.0	C100719	<1.0	1.0	C100719
Chloride (Cl)	mg/L	<1.0	C102945	<1.0	C102945	1.9	C102945	<1.0	1.0	C102945
Sulphate (SO4)	mg/L	11	C102945	13	C102945	100	C102945	24	1.0	C102945
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C099732	<0.015	C099759	<0.015	C099732	<0.015	0.015	C099732
Orthophosphate (P)	mg/L	<0.0030	C101225	<0.0030	C101225	<0.0030	C101225	<0.0030	0.0030	C101233
Dissolved Phosphorus (P)	mg/L	<0.0030	C102133	<0.0030	C102133	<0.0030	C102133	<0.0030	0.0030	C102146
Total Phosphorus (P)	mg/L	0.061	C102081	0.055	C102081	0.0073	C102087	<0.0030	0.0030	C102087
Nitrate plus Nitrite (N)	mg/L	0.025	C101003	0.031	C101003	0.047	C101003	0.026	0.020	C101003
Total Nitrogen (N)	mg/L	0.039	C100349	0.044	C100349	0.097	C100349	0.041	0.020	C100349

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN308		DTN309		DTN310		
Sampling Date		2025/09/16 15:20		2025/09/17 16:20		2025/09/16 16:00		
COC Number		114300		114300		114300		
	UNITS	W45	QC Batch	W46/SW21-4	QC Batch	SW16-8	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C101008	<0.0050	C100995	<0.0050	0.0050	C101008
Calculated Parameters								
Ion Balance (% Difference)	%	2.7	C097776	1.9	C097776	1.1	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.94	C097772	0.96	C097772	0.97	0.010	C097772
Nitrate (N)	mg/L	0.028	C096962	0.038	C096962	0.330	0.020	C096962
Calculated Total Dissolved Solids	mg/L	93	C097993	42	C097993	88	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.076	C097129	<0.020	C097129	0.036	0.020	C097129
Misc. Inorganics								
Conductivity	uS/cm	180	C100990	82	C100990	170	2.0	C100990
Dissolved Organic Carbon (C)	mg/L	<0.50	C099152	<0.50	C099152	<0.50	0.50	C099152
pH	pH	7.79	C100991	6.98	C100991	7.96	N/A	C100991
Total Suspended Solids	mg/L	<1.0	C101834	32	C099416	1.2	1.0	C101834
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Alkalinity (Total as CaCO3)	mg/L	66	C100987	25	C100987	75	1.0	C100987
Bicarbonate (HCO3)	mg/L	80	C100987	30	C100987	92	1.0	C100987
Carbonate (CO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Fluoride (F)	mg/L	0.062	C102998	<0.050	C102998	<0.050	0.050	C102998
Hydroxide (OH)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Chloride (Cl)	mg/L	<1.0	C102945	<1.0	C102945	<1.0	1.0	C104741
Sulphate (SO4)	mg/L	21	C102945	13	C102945	9.0	1.0	C104741
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C099759	<0.015	C099759	<0.015	0.015	C099732
Orthophosphate (P)	mg/L	<0.0030	C101228	<0.0030	C101228	<0.0030	0.0030	C101228
Dissolved Phosphorus (P)	mg/L	<0.0030	C102146	<0.0030	C102146	<0.0030	0.0030	C102146
Total Phosphorus (P)	mg/L	<0.0030	C102087	0.063	C102087	0.0032	0.0030	C102087
Nitrate plus Nitrite (N)	mg/L	0.028	C101003	0.038	C100989	0.330	0.020	C101003
Total Nitrogen (N)	mg/L	0.103	C100349	0.042	C100349	0.366	0.020	C100349

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN311		DTN312		DTN313		DTN314		
Sampling Date		2025/09/17 10:15		2025/09/17 11:30		2025/09/15 18:30		2025/09/15 13:00		
COC Number		114300		114300		114300		114300		
	UNITS	SW21-5	QC Batch	SW24-4	QC Batch	TUL-09/W51	QC Batch	SW24-6	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C101008	<0.0050	C101008	<0.0050	C101008	<0.0050	0.0050	C101341
Calculated Parameters										
Ion Balance (% Difference)	%	4.8	C097776	4.3	C097776	5.2	C097776	3.0	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.91	C097772	0.92	C097772	0.90	C097772	0.94	0.010	C097772
Nitrate (N)	mg/L	<0.020	C096962	0.039	C096962	0.029	C096962	0.031	0.020	C096962
Calculated Total Dissolved Solids	mg/L	40	C097993	55	C097993	41	C097993	43	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.022	C097129	<0.020	C097129	<0.020	C097129	<0.020	0.020	C097129
Misc. Inorganics										
Conductivity	uS/cm	78	C100990	110	C100990	80	C100990	84	2.0	C100990
Dissolved Organic Carbon (C)	mg/L	<0.50	C099152	<0.50	C099152	<0.50	C099152	<0.50	0.50	C099152
pH	pH	7.18	C100991	7.30	C100991	6.93	C100991	7.02	N/A	C100991
Total Suspended Solids	mg/L	2.8	C099416	1.2	C099416	45	C103446	26	1.0	C103446
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Alkalinity (Total as CaCO3)	mg/L	33	C100987	34	C100987	25	C100987	25	1.0	C100987
Bicarbonate (HCO3)	mg/L	40	C100987	42	C100987	30	C100987	31	1.0	C100987
Carbonate (CO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Fluoride (F)	mg/L	<0.050	C102998	<0.050	C102998	0.054	C102998	0.059	0.050	C102998
Hydroxide (OH)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Chloride (Cl)	mg/L	<1.0	C104523	<1.0	C104523	<1.0	C104523	<1.0	1.0	C104523
Sulphate (SO4)	mg/L	6.4	C104523	16	C104523	13	C104523	13	1.0	C104523
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C099759	<0.015	C099732	<0.015	C099732	<0.015	0.015	C099759
Orthophosphate (P)	mg/L	<0.0030	C101228	0.0033	C101228	<0.0030	C101228	<0.0030	0.0030	C101228
Dissolved Phosphorus (P)	mg/L	<0.0030	C102146	<0.0030 (1)	C102146	0.016	C102146	<0.0030	0.0030	C102146
Total Phosphorus (P)	mg/L	0.0088	C102087	0.0031 (2)	C102087	0.053	C102087	0.046	0.0030	C102087
Nitrate plus Nitrite (N)	mg/L	<0.020	C101003	0.039	C101003	0.029	C101003	0.031	0.020	C101339

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Dissolved Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.
(2) Total Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN311		DTN312		DTN313		DTN314		
Sampling Date		2025/09/17 10:15		2025/09/17 11:30		2025/09/15 18:30		2025/09/15 13:00		
COC Number		114300		114300		114300		114300		
	UNITS	**SW21-5**	**QC Batch**	**SW24-4**	**QC Batch**	**TUL-09/W51**	**QC Batch**	**SW24-6**	**RDL**	**QC Batch**
Total Nitrogen (N)	mg/L	0.022	C100349	0.045	C100349	0.042	C100349	0.050 (1)	0.020	C100354

RDL = Reportable Detection Limit
(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN315		DTN316		DTN317		DTN318		
Sampling Date		2025/09/15 15:00		2025/09/15 00:00		2025/09/17 08:45		2025/09/17 09:15		
COC Number		114300		114300		114300		114300		
	UNITS	SW24-7	QC Batch	SW24-8	QC Batch	SW24-10	QC Batch	TUL-12	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	<0.0050	C101341	<0.0050	C101341	<0.0050	C101341	<0.0050	0.0050	C101008
Calculated Parameters										
Ion Balance (% Difference)	%	4.3	C097776	2.7	C097776	4.1	C097776	2.6	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.92	C097772	0.94	C097772	0.92	C097772	0.95	0.010	C097772
Nitrate (N)	mg/L	0.028	C096962	0.096	C096962	0.035	C096962	0.029	0.020	C096962
Calculated Total Dissolved Solids	mg/L	42	C097993	100	C097993	41	C097993	48	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	C097129	0.024	C097129	0.026	C097129	<0.020	0.020	C097129
Misc. Inorganics										
Conductivity	uS/cm	83	C100990	190	C100990	81	C100990	96	2.0	C100990
Dissolved Organic Carbon (C)	mg/L	<0.50	C099152	<0.50	C099152	<0.50	C099152	<0.50	0.50	C099152
pH	pH	6.94	C100991	7.81	C100991	7.03	C100991	7.32	N/A	C100991
Total Suspended Solids	mg/L	29	C103446	<1.0	C103446	36	C099413	<1.0	1.0	C099413
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Alkalinity (Total as CaCO3)	mg/L	26	C100987	67	C100987	24	C100987	36	1.0	C100987
Bicarbonate (HCO3)	mg/L	31	C100987	81	C100987	30	C100987	44	1.0	C100987
Carbonate (CO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Fluoride (F)	mg/L	<0.050	C102998	<0.050	C102998	<0.050	C102998	0.056	0.050	C102998
Hydroxide (OH)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Chloride (Cl)	mg/L	<1.0	C104523	1.9	C102923	<1.0	C102923	<1.0	1.0	C102945
Sulphate (SO4)	mg/L	13	C104523	24	C102923	13	C102923	9.4	1.0	C102945
Nutrients										
Total Ammonia (N)	mg/L	<0.015	C099760	<0.015	C099760	<0.015	C099760	<0.015	0.015	C099760
Orthophosphate (P)	mg/L	<0.0030 (1)	C101228	<0.0030	C101228	<0.0030	C101228	<0.0030	0.0030	C101228
Dissolved Phosphorus (P)	mg/L	<0.0030	C102146	<0.0030	C102146	<0.0030	C102146	<0.0030	0.0030	C102146
Total Phosphorus (P)	mg/L	0.045	C102087	<0.0030	C102087	0.050	C102087	0.0079	0.0030	C102087
Nitrate plus Nitrite (N)	mg/L	0.028	C101339	0.096	C101339	0.035	C101339	0.029	0.020	C101003
Total Nitrogen (N)	mg/L	0.039	C100354	0.120	C100354	0.061	C100354	0.032	0.020	C100354

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN319		DTN320		DTN321		
Sampling Date		2025/09/15 16:30		2025/09/15 13:05		2025/09/17 10:20		
COC Number		114300		114300		114300		
	UNITS	W32/TUL-15	QC Batch	25-09-DUP01	QC Batch	25-09-DUP03	RDL	QC Batch
ANIONS								
Nitrite (N)	mg/L	<0.0050	C101341	<0.0050	C101341	<0.0050	0.0050	C101341
Calculated Parameters								
Ion Balance (% Difference)	%	4.3	C097776	3.4	C097776	4.4	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.92	C097772	0.93	C097772	0.92	0.010	C097772
Nitrate (N)	mg/L	0.026	C096962	0.037	C096962	<0.020	0.020	C096962
Calculated Total Dissolved Solids	mg/L	42	C097993	43	C097993	38	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	C097129	<0.020	C097129	<0.020	0.020	C097129
Misc. Inorganics								
Conductivity	uS/cm	82	C100990	85	C100990	78	2.0	C100990
Dissolved Organic Carbon (C)	mg/L	<0.50	C099152	<0.50	C099152	<0.50	0.50	C099152
pH	pH	7.03	C100991	6.93	C100991	7.20	N/A	C100991
Total Suspended Solids	mg/L	29	C101834	35	C100257	3.2	1.0	C099416
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Alkalinity (Total as CaCO3)	mg/L	25	C100987	26	C100987	33	1.0	C100987
Bicarbonate (HCO3)	mg/L	31	C100987	31	C100987	40	1.0	C100987
Carbonate (CO3)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Fluoride (F)	mg/L	<0.050	C102998	<0.050	C102998	<0.050	0.050	C102998
Hydroxide (OH)	mg/L	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Chloride (Cl)	mg/L	<1.0	C102945	<1.0	C102945	<1.0	1.0	C102945
Sulphate (SO4)	mg/L	13	C102945	13	C102945	5.3	1.0	C102945
Nutrients								
Total Ammonia (N)	mg/L	<0.015	C099760	<0.015	C099760	<0.015	0.015	C099760
Orthophosphate (P)	mg/L	<0.0030	C101228	<0.0030	C101228	<0.0030	0.0030	C101228
Dissolved Phosphorus (P)	mg/L	<0.0030	C102146	<0.0030	C102146	<0.0030	0.0030	C102146
Total Phosphorus (P)	mg/L	0.048	C102087	0.044	C102087	0.0087	0.0030	C102087
Nitrate plus Nitrite (N)	mg/L	0.026	C107527	0.037	C101339	<0.020	0.020	C101339
Total Nitrogen (N)	mg/L	0.037	C100354	0.039	C100354	<0.020	0.020	C100354

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN322	DTN323		DTN324		DTN325		
Sampling Date		2025/09/18 10:35	2025/09/17 11:45		2025/09/19 12:00		2025/09/18 14:10		
COC Number		114300	114300		114300		114300		
	UNITS	**25-09-DUP04**	**25-09-FB02**	**QC Batch**	**25-09-FB03**	**QC Batch**	**25-09-FB04**	**RDL**	**QC Batch**
ANIONS									
Nitrite (N)	mg/L	<0.0050	<0.0050	C101341	<0.0050	C101341	<0.0050	0.0050	C101341
Calculated Parameters									
Ion Balance (% Difference)	%	1.5	NC	C097776	NC	C097776	NC	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	0.97	NC	C097772	NC	C097772	NC	0.010	C097772
Nitrate (N)	mg/L	0.038	<0.020	C096962	<0.020	C096962	<0.020	0.020	C096962
Calculated Total Dissolved Solids	mg/L	32	<1.0	C097993	<1.0	C097993	<1.0	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.023	<0.020	C097129	<0.020	C097129	<0.020	0.020	C097129
Misc. Inorganics									
Conductivity	uS/cm	65	<2.0	C100990	<2.0	C100990	<2.0	2.0	C100990
Dissolved Organic Carbon (C)	mg/L	<0.50	<0.50	C099152	<0.50	C099152	<0.50	0.50	C100190
pH	pH	6.65	6.03	C100991	5.75	C100991	5.72	N/A	C100991
Total Suspended Solids	mg/L	100	<1.0	C100256	<1.0	C101833	<1.0	1.0	C100256
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Alkalinity (Total as CaCO3)	mg/L	18	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Bicarbonate (HCO3)	mg/L	22	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Carbonate (CO3)	mg/L	<1.0	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Fluoride (F)	mg/L	<0.050	<0.050	C102998	<0.050	C102998	<0.050	0.050	C103368
Hydroxide (OH)	mg/L	<1.0	<1.0	C100987	<1.0	C100987	<1.0	1.0	C100987
Chloride (Cl)	mg/L	<1.0	<1.0	C102945	<1.0	C102945	<1.0	1.0	C102945
Sulphate (SO4)	mg/L	10	<1.0	C102945	<1.0	C102945	<1.0	1.0	C102945
Nutrients									
Total Ammonia (N)	mg/L	<0.015	<0.015	C099759	<0.015	C099760	<0.015	0.015	C099759
Orthophosphate (P)	mg/L	<0.0030	<0.0030	C101228	<0.0030	C101228	<0.0030	0.0030	C101228
Dissolved Phosphorus (P)	mg/L	<0.0030	<0.0030	C102146	<0.0030	C102146	<0.0030	0.0030	C102146
Total Phosphorus (P)	mg/L	0.090	<0.0030	C102087	<0.0030	C102087	<0.0030	0.0030	C102087
Nitrate plus Nitrite (N)	mg/L	0.038	<0.020	C101339	<0.020	C101339	<0.020	0.020	C101339
Total Nitrogen (N)	mg/L	0.061	<0.020	C100354	<0.020	C100354	<0.020	0.020	C100354

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		DTN326		
Sampling Date		2025/09/19 16:00		
COC Number		114300		
	UNITS	25-09-TB01	RDL	QC Batch
ANIONS				
Nitrite (N)	mg/L	<0.0050	0.0050	C107573
Calculated Parameters				
Ion Balance (% Difference)	%	NC	N/A	C097776
Ion Ratio (cation sum / anion sum)	N/A	NC	0.010	C097772
Nitrate (N)	mg/L	<0.020	0.020	C096962
Calculated Total Dissolved Solids	mg/L	<1.0	1.0	C097993
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	0.020	C097129
Misc. Inorganics				
Conductivity	uS/cm	<2.0	2.0	C105424
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	C100190
pH	pH	6.42	N/A	C105425
Total Suspended Solids	mg/L	<1.0	1.0	C101833
Anions				
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	C105367
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	C105367
Bicarbonate (HCO3)	mg/L	<1.0	1.0	C105367
Carbonate (CO3)	mg/L	<1.0	1.0	C105367
Fluoride (F)	mg/L	<0.050	0.050	C107609
Hydroxide (OH)	mg/L	<1.0	1.0	C105367
Chloride (Cl)	mg/L	<1.0	1.0	C104805
Sulphate (SO4)	mg/L	<1.0	1.0	C104805
Nutrients				
Total Ammonia (N)	mg/L	<0.015	0.015	C099732
Orthophosphate (P)	mg/L	<0.0030	0.0030	C107601
Dissolved Phosphorus (P)	mg/L	<0.0030	0.0030	C102146
Total Phosphorus (P)	mg/L	<0.0030	0.0030	C102089
Nitrate plus Nitrite (N)	mg/L	<0.020	0.020	C107527
Total Nitrogen (N)	mg/L	<0.020	0.020	C100354

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

MERCURY BY COLD VAPOR (SURFACE WATER)

Bureau Veritas ID		DTN291	DTN292	DTN293	DTN294	DTN295	DTN296		
Sampling Date		2025/09/19 11:15	2025/09/18 09:30	2025/09/18 10:30	2025/09/18 17:40	2025/09/19 09:45	2025/09/19 09:15		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	W10/TUL-00	TUL-06/SW16-3	SW21-2	SW24-2	TUL-03	TUL-05	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	0.0020	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C101258
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN297		DTN298	DTN299	DTN300	DTN301		
Sampling Date		2025/09/18 12:10		2025/09/18 14:00	2025/09/18 14:20	2025/09/18 15:05	2025/09/18 16:45		
COC Number		114300		114300	114300	114300	114300		
	UNITS	W27	QC Batch	WTP Pond	SE-2	5200 Level Adit	5400 Level Adit	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	C101258	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C101298
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN302	DTN303	DTN304	DTN305	DTN306	DTN307		
Sampling Date		2025/09/18 11:45	2025/09/18 17:10	2025/09/17 16:30	2025/09/17 14:30	2025/09/17 11:50	2025/09/16 15:00		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	SW16-1	CC-02	SW24-1	SW24-11	W11	W44	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C101298
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN308	DTN309	DTN310	DTN311	DTN312	DTN313		
Sampling Date		2025/09/16 15:20	2025/09/17 16:20	2025/09/16 16:00	2025/09/17 10:15	2025/09/17 11:30	2025/09/15 18:30		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	W45	W46/SW21-4	SW16-8	SW21-5	SW24-4	TUL-09/W51	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C101298
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

MERCURY BY COLD VAPOR (SURFACE WATER)

Bureau Veritas ID		DTN314	DTN315	DTN316	DTN317		DTN318	DTN319		
Sampling Date		2025/09/15 13:00	2025/09/15 15:00	2025/09/15 00:00	2025/09/17 08:45		2025/09/17 09:15	2025/09/15 16:30		
COC Number		114300	114300	114300	114300		114300	114300		
	UNITS	**SW24-6**	**SW24-7**	**SW24-8**	**SW24-10**	**QC Batch**	**TUL-12**	**W32/TUL-15**	**RDL**	**QC Batch**
Elements										
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	C101298	<0.0019	<0.0019	0.0019	C103569
RDL = Reportable Detection Limit										

Bureau Veritas ID		DTN320	DTN321	DTN322	DTN323	DTN324	DTN325		
Sampling Date		2025/09/15 13:05	2025/09/17 10:20	2025/09/18 10:35	2025/09/17 11:45	2025/09/19 12:00	2025/09/18 14:10		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	**25-09-DUP01**	**25-09-DUP03**	**25-09-DUP04**	**25-09-FB02**	**25-09-FB03**	**25-09-FB04**	**RDL**	**QC Batch**
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C103569
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN326		
Sampling Date		2025/09/19 16:00		
COC Number		114300		
	UNITS	**25-09-TB01**	**RDL**	**QC Batch**
Elements				
Dissolved Mercury (Hg)	ug/L	<0.0019	0.0019	C103569
RDL = Reportable Detection Limit				

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN291	DTN292	DTN293	DTN294	DTN295	DTN296		
Sampling Date		2025/09/19 11:15	2025/09/18 09:30	2025/09/18 10:30	2025/09/18 17:40	2025/09/19 09:45	2025/09/19 09:15		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	W10/TUL-00	TUL-06/SW16-3	SW21-2	SW24-2	TUL-03	TUL-05	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	27.8	29.5	27.2	59.3	28.0	28.4	0.50	C097976
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	9.31	9.50	8.52	22.8	9.38	9.51	0.050	C096819
Dissolved Magnesium (Mg)	mg/L	1.10	1.41	1.45	0.562	1.10	1.12	0.050	C096819
Dissolved Potassium (K)	mg/L	0.818	0.827	0.688	0.439	0.846	0.854	0.050	C096819
Dissolved Sodium (Na)	mg/L	0.446	0.338	0.175	0.506	0.460	0.463	0.050	C096819
Dissolved Sulphur (S)	mg/L	3.7	3.7	3.3	<3.0	3.3	3.9	3.0	C096819
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	47.9	16.7	8.45	11.8	40.0	38.7	0.50	C102241
Dissolved Antimony (Sb)	ug/L	0.085	0.059	0.034	0.992	0.081	0.086	0.020	C102241
Dissolved Arsenic (As)	ug/L	0.389	0.226	0.124	1.96	0.360	0.385	0.020	C102241
Dissolved Barium (Ba)	ug/L	14.8	30.0	35.2	9.32	15.1	15.4	0.020	C102241
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C102241
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102241
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C102241
Dissolved Cadmium (Cd)	ug/L	0.0058	0.0108	0.0157	<0.0050	0.0068	0.0063	0.0050	C102241
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C102241
Dissolved Cobalt (Co)	ug/L	0.0171	0.0152	0.0260	0.0062	0.0246	0.0215	0.0050	C102241
Dissolved Copper (Cu)	ug/L	0.127	0.266	0.365	0.267	0.122	0.095	0.050	C102241
Dissolved Iron (Fe)	ug/L	4.9	7.0	6.8	<1.0	6.4	5.3	1.0	C102241
Dissolved Lead (Pb)	ug/L	0.0105	0.0082	0.0050	<0.0050	0.0110	0.0090	0.0050	C102241
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C102241
Dissolved Manganese (Mn)	ug/L	1.62	3.70	7.82	0.077	2.13	1.97	0.050	C102241
Dissolved Molybdenum (Mo)	ug/L	1.90	1.37	0.950	0.190	1.91	1.92	0.050	C102241
Dissolved Nickel (Ni)	ug/L	0.128	0.939	1.26	0.037	0.151	0.145	0.020	C102241
Dissolved Selenium (Se)	ug/L	0.117	0.148	0.150	0.090	0.105	0.113	0.040	C102241
Dissolved Silicon (Si)	ug/L	664	642	421	1410	677	694	50	C102241
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102241
Dissolved Strontium (Sr)	ug/L	44.6	38.5	31.0	43.9	43.7	44.8	0.050	C102241
Dissolved Thallium (Tl)	ug/L	0.0050	0.0080	0.0105	<0.0020	0.0045	0.0039	0.0020	C102241

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN291	DTN292	DTN293	DTN294	DTN295	DTN296		
Sampling Date		2025/09/19 11:15	2025/09/18 09:30	2025/09/18 10:30	2025/09/18 17:40	2025/09/19 09:45	2025/09/19 09:15		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	**W10/TUL-00**	**TUL-06/SW16-3**	**SW21-2**	**SW24-2**	**TUL-03**	**TUL-05**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C102241
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C102241
Dissolved Uranium (U)	ug/L	0.179	0.0833	0.0453	0.0601	0.141	0.138	0.0020	C102241
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C102241
Dissolved Zinc (Zn)	ug/L	<0.10	<0.10	<0.10	1.16	<0.10	<0.10	0.10	C102241
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C102241
RDL = Reportable Detection Limit									

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LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN297	DTN298		DTN299		DTN300		
Sampling Date		2025/09/18 12:10	2025/09/18 14:00		2025/09/18 14:20		2025/09/18 15:05		
COC Number		114300	114300		114300		114300		
	UNITS	W27	WTP Pond	RDL	SE-2	RDL	5200 Level Adit	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	63.8	221	0.50	185	0.50	409	0.50	C097976
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	22.4	79.6	0.050	63.6	0.25	136	1.0	C096819
Dissolved Magnesium (Mg)	mg/L	1.93	5.33	0.050	6.39	0.25	16.8	1.0	C096819
Dissolved Potassium (K)	mg/L	0.419	1.13	0.050	0.90	0.25	1.1	1.0	C096819
Dissolved Sodium (Na)	mg/L	0.570	1.90	0.050	4.82	0.25	4.1	1.0	C096819
Dissolved Sulphur (S)	mg/L	7.8	58.7	3.0	104	15	281	60	C096819
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	31.2	8.95	0.50	6740	2.5	23900	10	C102241
Dissolved Antimony (Sb)	ug/L	0.396	8.73	0.020	0.29	0.10	<0.40	0.40	C102241
Dissolved Arsenic (As)	ug/L	1.06	0.535	0.020	0.73	0.10	3.52	0.40	C102241
Dissolved Barium (Ba)	ug/L	16.8	20.1	0.020	25.1	0.10	17.5	0.40	C102241
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.010	0.214	0.050	0.47	0.20	C102241
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	<0.025	0.025	<0.10	0.10	C102241
Dissolved Boron (B)	ug/L	<10	<10	10	<50	50	<200	200	C102241
Dissolved Cadmium (Cd)	ug/L	0.0185	5.36	0.0050	161	0.025	403	0.10	C102241
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	0.10	0.59	0.50	4.7	2.0	C102241
Dissolved Cobalt (Co)	ug/L	0.0547	0.476	0.0050	5.37	0.025	12.1	0.10	C102241
Dissolved Copper (Cu)	ug/L	0.425	11.8	0.050	8020	0.25	25200	1.0	C102241
Dissolved Iron (Fe)	ug/L	16.3	13.9	1.0	540	5.0	25700	20	C102241
Dissolved Lead (Pb)	ug/L	0.0103	0.0051	0.0050	95.0	0.025	236	0.10	C102241
Dissolved Lithium (Li)	ug/L	1.02	4.77	0.50	9.6	2.5	20	10	C102241
Dissolved Manganese (Mn)	ug/L	9.43	29.4	0.050	340	0.25	503	1.0	C102241
Dissolved Molybdenum (Mo)	ug/L	2.81	0.345	0.050	<0.25	0.25	<1.0	1.0	C102241
Dissolved Nickel (Ni)	ug/L	1.47	1.84	0.020	7.90	0.10	14.9	0.40	C102241
Dissolved Selenium (Se)	ug/L	0.336	0.081	0.040	<0.20	0.20	<0.80	0.80	C102241
Dissolved Silicon (Si)	ug/L	1240	2740	50	7010	250	9360	1000	C102241
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	0.061	0.025	0.12	0.10	C102241
Dissolved Strontium (Sr)	ug/L	139	196	0.050	268	0.25	707	1.0	C102241
Dissolved Thallium (Tl)	ug/L	0.0082	0.0072	0.0020	0.258	0.010	0.998	0.040	C102241

RDL = Reportable Detection Limit

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LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN297	DTN298		DTN299		DTN300		
Sampling Date		2025/09/18 12:10	2025/09/18 14:00		2025/09/18 14:20		2025/09/18 15:05		
COC Number		114300	114300		114300		114300		
	UNITS	**W27**	**WTP Pond**	**RDL**	**SE-2**	**RDL**	**5200 Level Adit**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	<1.0	1.0	<4.0	4.0	C102241
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<10	10	C102241
Dissolved Uranium (U)	ug/L	0.515	0.104	0.0020	3.55	0.010	15.2	0.040	C102241
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	0.20	<1.0	1.0	<4.0	4.0	C102241
Dissolved Zinc (Zn)	ug/L	<0.10	976	0.10	39400	0.50	96800	2.0	C102241
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	<0.50	0.50	<2.0	2.0	C102241
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN301		DTN302	DTN303	DTN304	DTN305		
Sampling Date		2025/09/18 16:45		2025/09/18 11:45	2025/09/18 17:10	2025/09/17 16:30	2025/09/17 14:30		
COC Number		114300		114300	114300	114300	114300		
	UNITS	5400 Level Adit	RDL	SW16-1	CC-02	SW24-1	SW24-11	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	143	0.50	39.8	60.7	27.7	32.6	0.50	C097976
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	50.0	0.25	13.7	23.4	9.31	11.1	0.050	C096819
Dissolved Magnesium (Mg)	mg/L	4.35	0.25	1.39	0.585	1.07	1.22	0.050	C096819
Dissolved Potassium (K)	mg/L	0.64	0.25	0.750	0.358	0.841	0.798	0.050	C096819
Dissolved Sodium (Na)	mg/L	5.45	0.25	0.507	0.694	0.463	0.480	0.050	C096819
Dissolved Sulphur (S)	mg/L	74	15	4.9	3.2	3.6	4.6	3.0	C096819
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	2410	2.5	32.3	21.6	39.0	37.3	0.50	C102241
Dissolved Antimony (Sb)	ug/L	0.79	0.10	0.179	0.853	0.087	0.133	0.020	C102241
Dissolved Arsenic (As)	ug/L	0.48	0.10	0.669	1.63	0.454	0.576	0.020	C102241
Dissolved Barium (Ba)	ug/L	29.6	0.10	17.7	14.1	15.4	15.7	0.020	C102241
Dissolved Beryllium (Be)	ug/L	0.167	0.050	<0.010	<0.010	<0.010	<0.010	0.010	C102241
Dissolved Bismuth (Bi)	ug/L	<0.025	0.025	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102241
Dissolved Boron (B)	ug/L	<50	50	<10	<10	<10	<10	10	C102241
Dissolved Cadmium (Cd)	ug/L	146	0.025	0.0123	0.403	0.0055	0.0092	0.0050	C102241
Dissolved Chromium (Cr)	ug/L	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	C102241
Dissolved Cobalt (Co)	ug/L	2.71	0.025	0.0395	0.0185	0.0165	0.0235	0.0050	C102241
Dissolved Copper (Cu)	ug/L	6060	0.25	0.229	7.84	0.104	0.144	0.050	C102241
Dissolved Iron (Fe)	ug/L	28.2	5.0	7.7	7.0	5.1	5.4	1.0	C102241
Dissolved Lead (Pb)	ug/L	45.5	0.025	0.0123	0.197	0.0096	0.0093	0.0050	C102241
Dissolved Lithium (Li)	ug/L	7.3	2.5	0.51	<0.50	<0.50	<0.50	0.50	C102241
Dissolved Manganese (Mn)	ug/L	263	0.25	7.46	0.976	2.27	3.82	0.050	C102241
Dissolved Molybdenum (Mo)	ug/L	<0.25	0.25	2.30	0.218	1.85	1.99	0.050	C102241
Dissolved Nickel (Ni)	ug/L	4.55	0.10	0.552	0.103	0.148	0.226	0.020	C102241
Dissolved Selenium (Se)	ug/L	0.24	0.20	0.183	0.114	0.109	0.122	0.040	C102241
Dissolved Silicon (Si)	ug/L	4050	250	893	1770	673	732	50	C102241
Dissolved Silver (Ag)	ug/L	0.034	0.025	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102241
Dissolved Strontium (Sr)	ug/L	199	0.25	73.8	52.3	44.2	56.8	0.050	C102241
Dissolved Thallium (Tl)	ug/L	0.130	0.010	0.0061	0.0032	0.0035	0.0047	0.0020	C102241

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN301		DTN302	DTN303	DTN304	DTN305		
Sampling Date		2025/09/18 16:45		2025/09/18 11:45	2025/09/18 17:10	2025/09/17 16:30	2025/09/17 14:30		
COC Number		114300		114300	114300	114300	114300		
	UNITS	**5400 Level Adit**	**RDL**	**SW16-1**	**CC-02**	**SW24-1**	**SW24-11**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	C102241
Dissolved Titanium (Ti)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	<0.50	0.50	C102241
Dissolved Uranium (U)	ug/L	1.61	0.010	0.243	0.0745	0.136	0.162	0.0020	C102241
Dissolved Vanadium (V)	ug/L	<1.0	1.0	<0.20	<0.20	<0.20	<0.20	0.20	C102241
Dissolved Zinc (Zn)	ug/L	35500	0.50	<0.10	64.8	<0.10	<0.10	0.10	C102241
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	<0.10	<0.10	<0.10	<0.10	0.10	C102241
RDL = Reportable Detection Limit									

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LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN306		DTN307	DTN308	DTN309	DTN310		
Sampling Date		2025/09/17 11:50		2025/09/16 15:00	2025/09/16 15:20	2025/09/17 16:20	2025/09/16 16:00		
COC Number		114300		114300	114300	114300	114300		
	UNITS	W11	RDL	W44	W45	W46/SW21-4	SW16-8	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	108	0.50	82.0	78.0	34.6	80.5	0.50	C097976
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	37.3	0.10	28.1	26.4	11.8	30.1	0.050	C096819
Dissolved Magnesium (Mg)	mg/L	3.71	0.10	2.89	2.91	1.28	1.34	0.050	C096819
Dissolved Potassium (K)	mg/L	1.08	0.10	1.97	1.86	0.768	0.598	0.050	C096819
Dissolved Sodium (Na)	mg/L	2.10	0.10	1.26	1.03	0.472	0.748	0.050	C096819
Dissolved Sulphur (S)	mg/L	41.9	6.0	8.0	6.8	3.9	<3.0	3.0	C096819
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	15.2	1.0	2.16	1.63	39.4	5.82	0.50	C102241
Dissolved Antimony (Sb)	ug/L	0.356	0.040	0.144	0.122	0.149	0.397	0.020	C102241
Dissolved Arsenic (As)	ug/L	0.078	0.040	0.326	0.319	0.603	0.713	0.020	C102241
Dissolved Barium (Ba)	ug/L	30.4	0.040	53.7	51.6	16.4	36.8	0.020	C102241
Dissolved Beryllium (Be)	ug/L	<0.020	0.020	<0.010	<0.010	<0.010	<0.010	0.010	C102241
Dissolved Bismuth (Bi)	ug/L	<0.010	0.010	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102241
Dissolved Boron (B)	ug/L	<20	20	<10	<10	<10	<10	10	C102241
Dissolved Cadmium (Cd)	ug/L	51.2	0.010	0.0093	<0.0050	0.0084	0.120	0.0050	C102241
Dissolved Chromium (Cr)	ug/L	<0.20	0.20	0.10	<0.10	<0.10	0.11	0.10	C102241
Dissolved Cobalt (Co)	ug/L	1.88	0.010	0.0064	0.0134	0.0238	0.0098	0.0050	C102241
Dissolved Copper (Cu)	ug/L	1800	0.10	0.222	0.230	0.137	1.27	0.050	C102241
Dissolved Iron (Fe)	ug/L	<2.0	2.0	<1.0	3.4	6.0	1.9	1.0	C102241
Dissolved Lead (Pb)	ug/L	4.85	0.010	<0.0050	<0.0050	0.0091	<0.0050	0.0050	C102241
Dissolved Lithium (Li)	ug/L	3.8	1.0	0.79	0.82	<0.50	<0.50	0.50	C102241
Dissolved Manganese (Mn)	ug/L	116	0.10	1.18	0.433	3.62	1.95	0.050	C102241
Dissolved Molybdenum (Mo)	ug/L	0.93	0.10	3.14	2.35	2.03	0.395	0.050	C102241
Dissolved Nickel (Ni)	ug/L	4.04	0.040	0.293	0.355	0.245	0.141	0.020	C102241
Dissolved Selenium (Se)	ug/L	0.233	0.080	0.599	0.355	0.129	0.218	0.040	C102241
Dissolved Silicon (Si)	ug/L	3300	100	1930	2090	752	2310	50	C102241
Dissolved Silver (Ag)	ug/L	0.013	0.010	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102241
Dissolved Strontium (Sr)	ug/L	161	0.10	102	98.4	61.3	65.5	0.050	C102241
Dissolved Thallium (Tl)	ug/L	0.0920	0.0040	0.0023	<0.0020	0.0060	0.0044	0.0020	C102241

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN306		DTN307	DTN308	DTN309	DTN310		
Sampling Date		2025/09/17 11:50		2025/09/16 15:00	2025/09/16 15:20	2025/09/17 16:20	2025/09/16 16:00		
COC Number		114300		114300	114300	114300	114300		
	UNITS	W11	RDL	W44	W45	W46/SW21-4	SW16-8	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.40	0.40	<0.20	<0.20	<0.20	<0.20	0.20	C102241
Dissolved Titanium (Ti)	ug/L	<1.0	1.0	<0.50	<0.50	<0.50	<0.50	0.50	C102241
Dissolved Uranium (U)	ug/L	0.144	0.0040	0.542	0.311	0.238	0.152	0.0020	C102241
Dissolved Vanadium (V)	ug/L	<0.40	0.40	<0.20	<0.20	<0.20	<0.20	0.20	C102241
Dissolved Zinc (Zn)	ug/L	12300	0.20	1.56	1.48	<0.10	7.05	0.10	C102241
Dissolved Zirconium (Zr)	ug/L	<0.20	0.20	<0.10	<0.10	<0.10	<0.10	0.10	C102241
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN311	DTN312	DTN313	DTN314	DTN315	DTN316		
Sampling Date		2025/09/17 10:15	2025/09/17 11:30	2025/09/15 18:30	2025/09/15 13:00	2025/09/15 15:00	2025/09/15 00:00		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	SW21-5	SW24-4	TUL-09/W51	SW24-6	SW24-7	SW24-8	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	34.7	42.4	32.0	34.2	33.3	80.6	0.50	C097976
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	12.4	14.5	10.7	11.5	11.2	26.9	0.050	C096819
Dissolved Magnesium (Mg)	mg/L	0.925	1.50	1.28	1.34	1.28	3.28	0.050	C096819
Dissolved Potassium (K)	mg/L	0.163	1.08	0.834	0.895	0.828	2.12	0.050	C096819
Dissolved Sodium (Na)	mg/L	0.291	1.24	0.508	0.654	0.530	2.63	0.050	C096819
Dissolved Sulphur (S)	mg/L	<3.0	5.0	4.8	4.1	4.1	7.5	3.0	C096819
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	19.0	21.2	38.4	31.9	37.5	1.72	0.50	C102231
Dissolved Antimony (Sb)	ug/L	0.214	0.235	0.129	0.107	0.128	0.132	0.020	C102231
Dissolved Arsenic (As)	ug/L	1.48	0.723	0.539	0.505	0.589	0.229	0.020	C102231
Dissolved Barium (Ba)	ug/L	9.87	23.3	17.0	19.5	18.1	63.0	0.020	C102231
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	C102231
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C102231
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0417	0.0090	0.0083	0.0082	0.0119	0.0050	C102231
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C102231
Dissolved Cobalt (Co)	ug/L	<0.0050	<0.0050	0.0235	0.0261	0.0226	0.0085	0.0050	C102231
Dissolved Copper (Cu)	ug/L	0.103	0.854	0.132	0.126	0.140	0.288	0.050	C102231
Dissolved Iron (Fe)	ug/L	1.2	<1.0	5.3	3.8	5.7	1.1	1.0	C102231
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0123	0.0087	0.0117	<0.0050	0.0050	C102231
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.69	0.50	C102231
Dissolved Manganese (Mn)	ug/L	1.51	0.143	3.88	3.79	3.75	0.261	0.050	C102231
Dissolved Molybdenum (Mo)	ug/L	0.428	3.21	2.05	2.04	2.10	2.73	0.050	C102231
Dissolved Nickel (Ni)	ug/L	0.028	0.084	0.239	0.236	0.203	0.419	0.020	C102231
Dissolved Selenium (Se)	ug/L	0.123	0.257	0.127	0.147	0.125	0.412	0.040	C102231
Dissolved Silicon (Si)	ug/L	435	1110	719	792	748	2120	50	C102231
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Strontium (Sr)	ug/L	51.8	72.3	57.8	55.5	56.8	111	0.050	C102231
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0052	0.0039	0.0048	0.0044	0.0033	0.0020	C102231

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN311	DTN312	DTN313	DTN314	DTN315	DTN316		
Sampling Date		2025/09/17 10:15	2025/09/17 11:30	2025/09/15 18:30	2025/09/15 13:00	2025/09/15 15:00	2025/09/15 00:00		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	**SW21-5**	**SW24-4**	**TUL-09/W51**	**SW24-6**	**SW24-7**	**SW24-8**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C102231
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C102231
Dissolved Uranium (U)	ug/L	0.154	0.399	0.190	0.197	0.168	0.460	0.0020	C102231
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C102231
Dissolved Zinc (Zn)	ug/L	0.32	4.17	<0.10	<0.10	1.03	1.24	0.10	C102231
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C102231
RDL = Reportable Detection Limit									

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LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN317	DTN318	DTN319	DTN320	DTN321	DTN322		
Sampling Date		2025/09/17 08:45	2025/09/17 09:15	2025/09/15 16:30	2025/09/15 13:05	2025/09/17 10:20	2025/09/18 10:35		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	SW24-10	TUL-12	W32/TUL-15	25-09-DUP01	25-09-DUP03	25-09-DUP04	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	32.5	41.6	33.2	33.8	34.1	26.5	0.50	C097976
Dissolved Metals by ICPMS									
Dissolved Calcium (Ca)	mg/L	10.9	14.8	11.2	11.3	12.2	8.21	0.050	C096819
Dissolved Magnesium (Mg)	mg/L	1.27	1.15	1.28	1.32	0.921	1.46	0.050	C096819
Dissolved Potassium (K)	mg/L	0.823	0.459	0.830	0.906	0.158	0.676	0.050	C096819
Dissolved Sodium (Na)	mg/L	0.518	0.488	0.537	0.672	0.288	0.178	0.050	C096819
Dissolved Sulphur (S)	mg/L	4.1	3.1	4.1	4.4	<3.0	3.1	3.0	C096819
Lab Filtered Metals									
Dissolved Aluminum (Al)	ug/L	36.1	20.1	35.3	34.3	18.4	10.3	0.50	C102231
Dissolved Antimony (Sb)	ug/L	0.126	0.236	0.125	0.112	0.212	0.034	0.020	C102231
Dissolved Arsenic (As)	ug/L	0.590	1.26	0.573	0.514	1.50	0.105	0.020	C102231
Dissolved Barium (Ba)	ug/L	17.2	17.4	18.1	19.6	9.89	35.1	0.020	C102231
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.017	0.010	C102231
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C102231
Dissolved Cadmium (Cd)	ug/L	0.0099	0.0272	0.0085	0.0084	<0.0050	0.0161	0.0050	C102231
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C102231
Dissolved Cobalt (Co)	ug/L	0.0280	<0.0050	0.0253	0.0261	<0.0050	0.0257	0.0050	C102231
Dissolved Copper (Cu)	ug/L	0.158	0.198	0.124	0.126	0.100	0.384	0.050	C102231
Dissolved Iron (Fe)	ug/L	5.5	<1.0	5.1	4.9	1.1	9.6	1.0	C102231
Dissolved Lead (Pb)	ug/L	0.0111	<0.0050	0.0095	0.0093	<0.0050	0.0093	0.0050	C102231
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C102231
Dissolved Manganese (Mn)	ug/L	3.90	1.24	4.05	3.75	1.56	7.87	0.050	C102231
Dissolved Molybdenum (Mo)	ug/L	2.03	1.07	2.04	2.14	0.444	1.02	0.050	C102231
Dissolved Nickel (Ni)	ug/L	0.255	0.069	0.231	0.242	0.029	1.32	0.020	C102231
Dissolved Selenium (Se)	ug/L	0.130	0.155	0.123	0.143	0.115	0.159	0.040	C102231
Dissolved Silicon (Si)	ug/L	714	682	732	782	430	410	50	C102231
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Strontium (Sr)	ug/L	56.7	60.6	56.7	55.6	50.6	30.2	0.050	C102231
Dissolved Thallium (Tl)	ug/L	0.0061	0.0023	0.0052	0.0048	<0.0020	0.0089	0.0020	C102231

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN317	DTN318	DTN319	DTN320	DTN321	DTN322		
Sampling Date		2025/09/17 08:45	2025/09/17 09:15	2025/09/15 16:30	2025/09/15 13:05	2025/09/17 10:20	2025/09/18 10:35		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	SW24-10	TUL-12	W32/TUL-15	25-09-DUP01	25-09-DUP03	25-09-DUP04	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C102231
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C102231
Dissolved Uranium (U)	ug/L	0.239	0.228	0.196	0.231	0.163	0.0547	0.0020	C102231
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C102231
Dissolved Zinc (Zn)	ug/L	0.13	2.15	0.11	0.62	<0.10	0.23	0.10	C102231
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C102231

RDL = Reportable Detection Limit

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LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN323	DTN324	DTN325	DTN326		
Sampling Date		2025/09/17 11:45	2025/09/19 12:00	2025/09/18 14:10	2025/09/19 16:00		
COC Number		114300	114300	114300	114300		
	UNITS	25-09-FB02	25-09-FB03	25-09-FB04	25-09-TB01	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50	C097976
Dissolved Metals by ICPMS							
Dissolved Calcium (Ca)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C096819
Dissolved Magnesium (Mg)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C096819
Dissolved Potassium (K)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C096819
Dissolved Sodium (Na)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	C096819
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	3.0	C096819
Lab Filtered Metals							
Dissolved Aluminum (Al)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	C102231
Dissolved Antimony (Sb)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C102231
Dissolved Arsenic (As)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C102231
Dissolved Barium (Ba)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C102231
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	C102231
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	C102231
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	C102231
Dissolved Cobalt (Co)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Copper (Cu)	ug/L	0.100	<0.050	<0.050	<0.050	0.050	C102231
Dissolved Iron (Fe)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	C102231
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	C102231
Dissolved Manganese (Mn)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	C102231
Dissolved Molybdenum (Mo)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	C102231
Dissolved Nickel (Ni)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	C102231
Dissolved Selenium (Se)	ug/L	<0.040	<0.040	<0.040	<0.040	0.040	C102231
Dissolved Silicon (Si)	ug/L	<50	<50	<50	<50	50	C102231
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	C102231
Dissolved Strontium (Sr)	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	C102231
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	C102231
RDL = Reportable Detection Limit							

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL DISSOLVED METALS-LAB FILT (SURFACE WATER)

Bureau Veritas ID		DTN323	DTN324	DTN325	DTN326		
Sampling Date		2025/09/17 11:45	2025/09/19 12:00	2025/09/18 14:10	2025/09/19 16:00		
COC Number		114300	114300	114300	114300		
	UNITS	**25-09-FB02**	**25-09-FB03**	**25-09-FB04**	**25-09-TB01**	**RDL**	**QC Batch**
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	C102231
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	C102231
Dissolved Uranium (U)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	C102231
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	C102231
Dissolved Zinc (Zn)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	C102231
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	C102231
RDL = Reportable Detection Limit							

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DTN325	DTN326		
Sampling Date		2025/09/18 14:10	2025/09/19 16:00		
COC Number		114300	114300		
	UNITS	**25-09-FB04**	**25-09-TB01**	**RDL**	**QC Batch**
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	<0.50	<0.50	0.50	C097973
Elements					
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	0.0019	C104461
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	<0.50	<0.50	0.50	C100933
Total Antimony (Sb)	ug/L	<0.020	<0.020	0.020	C100933
Total Arsenic (As)	ug/L	<0.020	<0.020	0.020	C100933
Total Barium (Ba)	ug/L	<0.020	<0.020	0.020	C100933
Total Beryllium (Be)	ug/L	<0.010	<0.010	0.010	C100933
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	C100933
Total Boron (B)	ug/L	<10	<10	10	C100933
Total Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0050	C100933
Total Chromium (Cr)	ug/L	<0.10	<0.10	0.10	C100933
Total Cobalt (Co)	ug/L	<0.0050	<0.0050	0.0050	C100933
Total Copper (Cu)	ug/L	<0.050	<0.050	0.050	C100933
Total Iron (Fe)	ug/L	<1.0	<1.0	1.0	C100933
Total Lead (Pb)	ug/L	<0.0050	<0.0050	0.0050	C100933
Total Lithium (Li)	ug/L	<0.50	<0.50	0.50	C100933
Total Manganese (Mn)	ug/L	<0.050	<0.050	0.050	C100933
Total Molybdenum (Mo)	ug/L	<0.050	<0.050	0.050	C100933
Total Nickel (Ni)	ug/L	<0.020	<0.020	0.020	C100933
Total Phosphorus (P)	ug/L	<2.0	<2.0	2.0	C100933
Total Selenium (Se)	ug/L	<0.040	<0.040	0.040	C100933
Total Silicon (Si)	ug/L	<50	<50	50	C100933
Total Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	C100933
Total Strontium (Sr)	ug/L	<0.050	<0.050	0.050	C100933
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	0.0020	C100933
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	C100933
Total Titanium (Ti)	ug/L	<0.50	<0.50	0.50	C100933
Total Uranium (U)	ug/L	<0.0020	<0.0020	0.0020	C100933
Total Vanadium (V)	ug/L	<0.20	<0.20	0.20	C100933
RDL = Reportable Detection Limit					

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL TOTAL METALS WITH CV HG (SURFACE WATER)

Bureau Veritas ID		DTN325	DTN326		
Sampling Date		2025/09/18 14:10	2025/09/19 16:00		
COC Number		114300	114300		
	UNITS	**25-09-FB04**	**25-09-TB01**	**RDL**	**QC Batch**
Total Zinc (Zn)	ug/L	<0.10	<0.10	0.10	C100933
Total Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	C100933
Total Calcium (Ca)	mg/L	<0.050	<0.050	0.050	C096820
Total Magnesium (Mg)	mg/L	<0.050	<0.050	0.050	C096820
Total Potassium (K)	mg/L	<0.050	<0.050	0.050	C096820
Total Sodium (Na)	mg/L	<0.050	<0.050	0.050	C096820
Total Sulphur (S)	mg/L	<3.0	<3.0	3.0	C096820
RDL = Reportable Detection Limit					

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN291	DTN292	DTN293	DTN294	DTN295	DTN296		
Sampling Date		2025/09/19 11:15	2025/09/18 09:30	2025/09/18 10:30	2025/09/18 17:40	2025/09/19 09:45	2025/09/19 09:15		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	W10/TUL-00	TUL-06/SW16-3	SW21-2	SW24-2	TUL-03	TUL-05	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	34.2	36.0	32.0	52.8	31.9	32.2	0.50	C097973
Elements									
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C101274
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	2030	1680	948	12.9	1200	1100	3.0	C100701
Total Antimony (Sb)	ug/L	0.134	0.093	0.056	0.811	0.113	0.108	0.020	C100701
Total Arsenic (As)	ug/L	1.72	0.961	0.457	1.70	1.15	1.14	0.020	C100701
Total Barium (Ba)	ug/L	58.6	83.7	74.5	7.78	43.7	44.1	0.050	C100701
Total Beryllium (Be)	ug/L	0.056	0.054	0.032	<0.010	0.038	0.026	0.010	C100701
Total Bismuth (Bi)	ug/L	0.083	0.045	0.018	<0.010	0.050	0.050	0.010	C100701
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C100701
Total Cadmium (Cd)	ug/L	0.0588	0.0735	0.0530	<0.0050	0.0397	0.0404	0.0050	C100701
Total Chromium (Cr)	ug/L	2.84	4.73	3.35	<0.10	1.63	1.48	0.10	C100701
Total Cobalt (Co)	ug/L	1.31	1.70	1.16	<0.010	0.821	0.783	0.010	C100701
Total Copper (Cu)	ug/L	5.52	8.40	6.39	0.23	3.52	3.67	0.10	C100701
Total Iron (Fe)	ug/L	2590	2830	1760	<5.0	1550	1420	5.0	C100701
Total Lead (Pb)	ug/L	2.04	1.48	0.798	<0.020	1.36	1.35	0.020	C100701
Total Lithium (Li)	ug/L	1.56	1.49	0.89	<0.50	0.97	0.88	0.50	C100701
Total Manganese (Mn)	ug/L	69.4	102	77.6	0.28	41.5	40.2	0.10	C100701
Total Molybdenum (Mo)	ug/L	1.92	1.43	1.04	0.161	1.93	1.96	0.050	C100701
Total Nickel (Ni)	ug/L	3.75	7.69	6.56	<0.10	2.36	2.20	0.10	C100701
Total Phosphorus (P)	ug/L	54.6	67.5	44.6	<5.0	34.3	32.6	5.0	C100701
Total Selenium (Se)	ug/L	0.135	0.191	0.175	0.074	0.138	0.136	0.040	C100701
Total Silicon (Si)	ug/L	3480	3000	1890	1270	2490	2380	50	C100701
Total Silver (Ag)	ug/L	0.025	0.030	0.023	<0.010	0.019	0.018	0.010	C100701
Total Strontium (Sr)	ug/L	51.7	40.6	32.8	36.6	47.8	49.1	0.050	C100701
Total Thallium (Tl)	ug/L	0.0290	0.0326	0.0248	<0.0020	0.0225	0.0215	0.0020	C100701
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C100701
Total Titanium (Ti)	ug/L	112	79.1	42.7	<2.0	68.1	67.8	2.0	C100701
Total Uranium (U)	ug/L	0.456	0.316	0.181	0.0503	0.379	0.393	0.0050	C100701

RDL = Reportable Detection Limit

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN291	DTN292	DTN293	DTN294	DTN295	DTN296		
Sampling Date		2025/09/19 11:15	2025/09/18 09:30	2025/09/18 10:30	2025/09/18 17:40	2025/09/19 09:45	2025/09/19 09:15		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	W10/TUL-00	TUL-06/SW16-3	SW21-2	SW24-2	TUL-03	TUL-05	RDL	QC Batch
Total Vanadium (V)	ug/L	5.50	6.10	4.01	<0.20	3.34	3.12	0.20	C100701
Total Zinc (Zn)	ug/L	11.7	13.4	9.0	1.9	6.7	6.7	1.0	C100701
Total Zirconium (Zr)	ug/L	0.11	<0.10	<0.10	<0.10	0.12	0.15	0.10	C100701
Total Calcium (Ca)	mg/L	10.3	10.2	9.28	20.4	10.1	10.2	0.25	C096820
Total Magnesium (Mg)	mg/L	2.04	2.53	2.14	0.47	1.62	1.60	0.25	C096820
Total Potassium (K)	mg/L	1.36	1.22	0.94	0.37	1.17	1.18	0.25	C096820
Total Sodium (Na)	mg/L	0.66	0.41	<0.25	0.41	0.56	0.55	0.25	C096820
Total Sulphur (S)	mg/L	3.5	3.3	3.3	<3.0	3.5	3.3	3.0	C096820
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN297	DTN298		DTN299		DTN300		
Sampling Date		2025/09/18 12:10	2025/09/18 14:00		2025/09/18 14:20		2025/09/18 15:05		
COC Number		114300	114300		114300		114300		
	UNITS	W27	WTP Pond	RDL	SE-2	RDL	5200 Level Adit	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	76.9	196	0.50	180	0.50	419	0.50	C097973
Elements									
Total Mercury (Hg)	ug/L	0.0158	<0.0019	0.0019	0.0057	0.0019	<0.0019	0.0019	C101274
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	2040	33.9	3.0	6440	30	23600	60	C100701
Total Antimony (Sb)	ug/L	0.766	7.67	0.020	3.64	0.20	1.96	0.40	C100701
Total Arsenic (As)	ug/L	8.94	0.743	0.020	62.1	0.20	66.5	0.40	C100701
Total Barium (Ba)	ug/L	57.1	17.7	0.050	26.6	0.50	17.3	1.0	C100701
Total Beryllium (Be)	ug/L	0.077	<0.010	0.010	0.22	0.10	0.78	0.20	C100701
Total Bismuth (Bi)	ug/L	0.034	<0.010	0.010	<0.10	0.10	<0.20	0.20	C100701
Total Boron (B)	ug/L	<10	<10	10	<100	100	<200	200	C100701
Total Cadmium (Cd)	ug/L	0.187	5.32	0.0050	163	0.050	424	0.10	C100701
Total Chromium (Cr)	ug/L	5.49	<0.10	0.10	<1.0	1.0	4.5	2.0	C100701
Total Cobalt (Co)	ug/L	2.19	0.474	0.010	5.30	0.10	13.0	0.20	C100701
Total Copper (Cu)	ug/L	6.51	33.6	0.10	7440	1.0	24500	2.0	C100701
Total Iron (Fe)	ug/L	4100	233	5.0	9150	50	44600	100	C100701
Total Lead (Pb)	ug/L	2.03	0.116	0.020	99.5	0.20	240	0.40	C100701
Total Lithium (Li)	ug/L	2.96	3.61	0.50	7.7	5.0	17	10	C100701
Total Manganese (Mn)	ug/L	99.3	32.4	0.10	333	1.0	516	2.0	C100701
Total Molybdenum (Mo)	ug/L	3.31	0.325	0.050	0.56	0.50	<1.0	1.0	C100701
Total Nickel (Ni)	ug/L	14.0	2.10	0.10	8.0	1.0	15.9	2.0	C100701
Total Phosphorus (P)	ug/L	101	29.5	5.0	<50	50	<100	100	C100701
Total Selenium (Se)	ug/L	0.572	0.078	0.040	<0.40	0.40	<0.80	0.80	C100701
Total Silicon (Si)	ug/L	4000	2380	50	6920	500	9640	1000	C100701
Total Silver (Ag)	ug/L	0.031	<0.010	0.010	<0.10	0.10	<0.20	0.20	C100701
Total Strontium (Sr)	ug/L	151	168	0.050	266	0.50	710	1.0	C100701
Total Thallium (Tl)	ug/L	0.0879	0.0074	0.0020	0.249	0.020	1.07	0.040	C100701
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	<2.0	2.0	<4.0	4.0	C100701
Total Titanium (Ti)	ug/L	24.2	<2.0	2.0	<20	20	<40	40	C100701
Total Uranium (U)	ug/L	0.734	0.104	0.0050	3.58	0.050	15.4	0.10	C100701

RDL = Reportable Detection Limit

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN297	DTN298		DTN299		DTN300		
Sampling Date		2025/09/18 12:10	2025/09/18 14:00		2025/09/18 14:20		2025/09/18 15:05		
COC Number		114300	114300		114300		114300		
	UNITS	W27	WTP Pond	RDL	SE-2	RDL	5200 Level Adit	RDL	QC Batch
Total Vanadium (V)	ug/L	7.03	<0.20	0.20	<2.0	2.0	<4.0	4.0	C100701
Total Zinc (Zn)	ug/L	19.8	1160	1.0	39700	10	106000	20	C100701
Total Zirconium (Zr)	ug/L	0.20	<0.10	0.10	<1.0	1.0	<2.0	2.0	C100701
Total Calcium (Ca)	mg/L	24.9	70.9	0.25	61.9	2.5	141	5.0	C096820
Total Magnesium (Mg)	mg/L	3.59	4.56	0.25	6.2	2.5	16.2	5.0	C096820
Total Potassium (K)	mg/L	0.91	1.00	0.25	<2.5	2.5	<5.0	5.0	C096820
Total Sodium (Na)	mg/L	0.67	1.66	0.25	4.5	2.5	<5.0	5.0	C096820
Total Sulphur (S)	mg/L	7.6	52.4	3.0	97	30	300	60	C096820
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN301		DTN302		DTN303	DTN304		
Sampling Date		2025/09/18 16:45		2025/09/18 11:45		2025/09/18 17:10	2025/09/17 16:30		
COC Number		114300		114300		114300	114300		
	UNITS	5400 Level Adit	RDL	SW16-1	QC Batch	CC-02	SW24-1	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	138	0.50	44.3	C097973	57.6	34.4	0.50	C097973
Elements									
Total Mercury (Hg)	ug/L	0.0076	0.0019	0.0061	C101274	<0.0019	<0.0019	0.0019	C101274
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	3330	15	997	C100701	25.8	2010	3.0	C100652
Total Antimony (Sb)	ug/L	9.46	0.10	0.241	C100701	0.771	0.165	0.020	C100652
Total Arsenic (As)	ug/L	159	0.10	2.34	C100701	1.73	1.65	0.020	C100652
Total Barium (Ba)	ug/L	29.5	0.25	42.8	C100701	13.8	57.3	0.050	C100652
Total Beryllium (Be)	ug/L	0.171	0.050	0.036	C100701	<0.010	0.057	0.010	C100652
Total Bismuth (Bi)	ug/L	<0.050	0.050	0.043	C100701	<0.010	0.070	0.010	C100652
Total Boron (B)	ug/L	<50	50	<10	C100701	<10	<10	10	C100652
Total Cadmium (Cd)	ug/L	145	0.025	0.0735	C100701	0.396	0.0505	0.0050	C100652
Total Chromium (Cr)	ug/L	0.58	0.50	1.62	C100701	0.11	3.12	0.10	C100652
Total Cobalt (Co)	ug/L	2.65	0.050	0.965	C100701	0.019	1.24	0.010	C100652
Total Copper (Cu)	ug/L	5640	0.50	3.43	C100701	9.07	5.36	0.10	C100652
Total Iron (Fe)	ug/L	14300	25	1440	C100701	24.9	2590	5.0	C100652
Total Lead (Pb)	ug/L	90.1	0.10	1.28	C100701	0.422	1.78	0.020	C100652
Total Lithium (Li)	ug/L	5.9	2.5	1.01	C100701	<0.50	1.80	0.50	C100652
Total Manganese (Mn)	ug/L	257	0.50	51.8	C100701	1.23	65.0	0.10	C100652
Total Molybdenum (Mo)	ug/L	1.57	0.25	2.35	C100701	0.190	2.00	0.050	C100652
Total Nickel (Ni)	ug/L	4.90	0.50	3.91	C100701	0.14	3.71	0.10	C100652
Total Phosphorus (P)	ug/L	32	25	45.4	C100701	7.4	54.0	5.0	C100652
Total Selenium (Se)	ug/L	0.36	0.20	0.232	C100701	0.107	0.140	0.040	C100652
Total Silicon (Si)	ug/L	4110	250	2390	C100701	1740	3390	50	C100652
Total Silver (Ag)	ug/L	0.061	0.050	0.017	C100701	<0.010	0.024	0.010	C100652
Total Strontium (Sr)	ug/L	190	0.25	78.7	C100701	50.9	52.5	0.050	C100652
Total Thallium (Tl)	ug/L	0.132	0.010	0.0296	C100701	0.0032	0.0284	0.0020	C100652
Total Tin (Sn)	ug/L	<1.0	1.0	<0.20	C100701	<0.20	<0.20	0.20	C100652
Total Titanium (Ti)	ug/L	<10	10	50.5	C100701	<2.0	112	2.0	C100652
Total Uranium (U)	ug/L	2.06	0.025	0.444	C100701	0.0769	0.433	0.0050	C100652

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN301		DTN302		DTN303	DTN304		
Sampling Date		2025/09/18 16:45		2025/09/18 11:45		2025/09/18 17:10	2025/09/17 16:30		
COC Number		114300		114300		114300	114300		
	UNITS	5400 Level Adit	RDL	SW16-1	QC Batch	CC-02	SW24-1	RDL	QC Batch
Total Vanadium (V)	ug/L	<1.0	1.0	2.86	C100701	<0.20	5.45	0.20	C100652
Total Zinc (Zn)	ug/L	35600	5.0	8.0	C100701	65.9	11.1	1.0	C100652
Total Zirconium (Zr)	ug/L	<0.50	0.50	0.14	C100701	<0.10	0.13	0.10	C100652
Total Calcium (Ca)	mg/L	48.8	1.3	14.7	C096820	22.2	10.2	0.25	C096820
Total Magnesium (Mg)	mg/L	4.0	1.3	1.88	C096820	0.55	2.15	0.25	C096820
Total Potassium (K)	mg/L	<1.3	1.3	1.05	C096820	0.34	1.37	0.25	C096820
Total Sodium (Na)	mg/L	5.3	1.3	0.59	C096820	0.67	0.69	0.25	C096820
Total Sulphur (S)	mg/L	72	15	4.7	C096820	<3.0	3.2	3.0	C096820
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN305		DTN306		DTN307	DTN308	DTN309		
Sampling Date		2025/09/17 14:30		2025/09/17 11:50		2025/09/16 15:00	2025/09/16 15:20	2025/09/17 16:20		
COC Number		114300		114300		114300	114300	114300		
	UNITS	SW24-11	RDL	W11	RDL	W44	W45	W46/SW21-4	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	36.0	0.50	96.0	0.50	93.3	85.2	41.9	0.50	C097973
Elements										
Total Mercury (Hg)	ug/L	0.0026	0.0019	<0.0019	0.0019	<0.0019	<0.0019	0.0036	0.0019	C101301
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	1010	3.0	1280	6.0	5.7	3.8	1530	3.0	C100652
Total Antimony (Sb)	ug/L	0.161	0.020	0.450	0.040	0.164	0.141	0.200	0.020	C100652
Total Arsenic (As)	ug/L	1.31	0.020	2.71	0.040	0.394	0.368	1.94	0.020	C100652
Total Barium (Ba)	ug/L	41.7	0.050	28.1	0.10	61.8	57.5	50.2	0.050	C100652
Total Beryllium (Be)	ug/L	0.033	0.010	0.063	0.020	<0.010	<0.010	0.050	0.010	C100652
Total Bismuth (Bi)	ug/L	0.045	0.010	<0.020	0.020	<0.010	<0.010	0.054	0.010	C100652
Total Boron (B)	ug/L	<10	10	<20	20	<10	<10	<10	10	C100652
Total Cadmium (Cd)	ug/L	0.0464	0.0050	47.1	0.010	0.0116	0.0108	0.0574	0.0050	C100652
Total Chromium (Cr)	ug/L	1.54	0.10	<0.20	0.20	0.14	<0.10	2.28	0.10	C100652
Total Cobalt (Co)	ug/L	0.724	0.010	1.75	0.020	0.019	0.018	1.03	0.010	C100652
Total Copper (Cu)	ug/L	3.39	0.10	1970	0.20	0.38	0.36	4.29	0.10	C100652
Total Iron (Fe)	ug/L	1300	5.0	437 (1)	10	5.1	11.8	1950	5.0	C100652
Total Lead (Pb)	ug/L	1.22	0.020	14.0	0.040	0.044	0.028	1.46	0.020	C100652
Total Lithium (Li)	ug/L	1.15	0.50	3.6	1.0	0.88	0.88	1.59	0.50	C100652
Total Manganese (Mn)	ug/L	39.7	0.10	108	0.20	2.74	0.56	56.3	0.10	C100652
Total Molybdenum (Mo)	ug/L	2.09	0.050	1.00	0.10	3.60	2.59	2.26	0.050	C100652
Total Nickel (Ni)	ug/L	2.38	0.10	3.83	0.20	0.35	0.39	3.46	0.10	C100652
Total Phosphorus (P)	ug/L	35.8	5.0	<10	10	9.8	12.5	48.9	5.0	C100652
Total Selenium (Se)	ug/L	0.156	0.040	0.206	0.080	0.685	0.390	0.175	0.040	C100652
Total Silicon (Si)	ug/L	2110	50	3200	100	2270	2290	2940	50	C100652
Total Silver (Ag)	ug/L	0.014	0.010	<0.020	0.020	<0.010	<0.010	0.021	0.010	C100652
Total Strontium (Sr)	ug/L	64.9	0.050	149	0.10	121	108	74.4	0.050	C100652
Total Thallium (Tl)	ug/L	0.0201	0.0020	0.0779	0.0040	0.0022	0.0029	0.0280	0.0020	C100652
Total Tin (Sn)	ug/L	<0.20	0.20	<0.40	0.40	<0.20	<0.20	<0.20	0.20	C100652
Total Titanium (Ti)	ug/L	58.3	2.0	<4.0	4.0	<2.0	<2.0	83.0	2.0	C100652

RDL = Reportable Detection Limit
(1) Matrix Spike outside acceptance criteria due to sample matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN305		DTN306		DTN307	DTN308	DTN309		
Sampling Date		2025/09/17 14:30		2025/09/17 11:50		2025/09/16 15:00	2025/09/16 15:20	2025/09/17 16:20		
COC Number		114300		114300		114300	114300	114300		
	UNITS	SW24-11	RDL	W11	RDL	W44	W45	W46/SW21-4	RDL	QC Batch
Total Uranium (U)	ug/L	0.440	0.0050	0.860	0.010	0.697	0.387	0.468	0.0050	C100652
Total Vanadium (V)	ug/L	2.68	0.20	<0.40	0.40	<0.20	<0.20	4.14	0.20	C100652
Total Zinc (Zn)	ug/L	7.3	1.0	11800	2.0	3.5	2.8	8.8	1.0	C100652
Total Zirconium (Zr)	ug/L	<0.10	0.10	<0.20	0.20	<0.10	<0.10	<0.10	0.10	C100652
Total Calcium (Ca)	mg/L	11.4	0.25	32.8	0.50	31.6	28.8	13.2	0.25	C096820
Total Magnesium (Mg)	mg/L	1.83	0.25	3.41	0.50	3.47	3.25	2.18	0.25	C096820
Total Potassium (K)	mg/L	1.14	0.25	1.00	0.50	2.42	2.20	1.25	0.25	C096820
Total Sodium (Na)	mg/L	0.61	0.25	1.95	0.50	1.51	1.16	0.68	0.25	C096820
Total Sulphur (S)	mg/L	4.3	3.0	38.7	6.0	9.4	7.5	4.6	3.0	C096820

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN310	DTN311	DTN312		DTN313	DTN314	DTN315		
Sampling Date		2025/09/16 16:00	2025/09/17 10:15	2025/09/17 11:30		2025/09/15 18:30	2025/09/15 13:00	2025/09/15 15:00		
COC Number		114300	114300	114300		114300	114300	114300		
	UNITS	SW16-8	SW21-5	SW24-4	QC Batch	TUL-09/W51	SW24-6	SW24-7	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	83.9	38.5	49.8	C097973	36.0	37.5	35.1	0.50	C097973
Elements										
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	C101301	0.0019	<0.0019	<0.0019	0.0019	C101301
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	19.9	128	149	C100652	1710	1960	1180	3.0	C100359
Total Antimony (Sb)	ug/L	0.447	0.265	0.306	C100652	0.155	0.151	0.153	0.020	C100359
Total Arsenic (As)	ug/L	0.862	1.85	0.986	C100652	1.67	1.61	1.33	0.020	C100359
Total Barium (Ba)	ug/L	40.6	12.0	28.3	C100652	49.2	53.5	43.4	0.050	C100359
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	C100652	0.054	0.051	0.033	0.010	C100359
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	C100652	0.063	0.053	0.050	0.010	C100359
Total Boron (B)	ug/L	<10	<10	<10	C100652	<10	<10	<10	10	C100359
Total Cadmium (Cd)	ug/L	0.141	<0.0050	0.0559	C100652	0.0501	0.0448	0.0403	0.0050	C100359
Total Chromium (Cr)	ug/L	0.16	0.30	0.24	C100652	2.57	3.02	1.69	0.10	C100359
Total Cobalt (Co)	ug/L	0.026	0.078	0.067	C100652	1.10	1.12	0.773	0.010	C100359
Total Copper (Cu)	ug/L	1.84	0.46	2.89	C100652	4.37	4.40	3.30	0.10	C100359
Total Iron (Fe)	ug/L	27.6	138	142	C100652	2220	2490	1540	5.0	C100359
Total Lead (Pb)	ug/L	0.063	0.040	0.137	C100652	1.59	1.46	1.24	0.020	C100359
Total Lithium (Li)	ug/L	<0.50	<0.50	0.65	C100652	1.44	1.55	1.11	0.50	C100359
Total Manganese (Mn)	ug/L	4.10	5.63	3.01	C100652	59.2	58.0	42.7	0.10	C100359
Total Molybdenum (Mo)	ug/L	0.415	0.499	3.58	C100652	1.84	1.93	1.86	0.050	C100359
Total Nickel (Ni)	ug/L	0.31	0.25	0.37	C100652	3.41	3.58	2.42	0.10	C100359
Total Phosphorus (P)	ug/L	9.9	12.4	9.2	C100652	42.0	38.3	32.1	5.0	C100359
Total Selenium (Se)	ug/L	0.238	0.138	0.341	C100652	0.163	0.174	0.163	0.040	C100359
Total Silicon (Si)	ug/L	2530	619	1560	C100652	3090	3570	2460	50	C100359
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	C100652	0.019	0.017	0.016	0.010	C100359
Total Strontium (Sr)	ug/L	72.6	57.3	81.1	C100652	58.3	55.4	54.8	0.050	C100359
Total Thallium (Tl)	ug/L	0.0048	<0.0020	0.0083	C100652	0.0269	0.0234	0.0207	0.0020	C100359
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	C100652	<0.20	<0.20	<0.20	0.20	C100359
Total Titanium (Ti)	ug/L	<2.0	3.1	5.8	C100652	98.9	109	69.0	2.0	C100359
Total Uranium (U)	ug/L	0.175	0.191	0.430	C100652	0.428	0.391	0.398	0.0050	C100359

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN310	DTN311	DTN312		DTN313	DTN314	DTN315		
Sampling Date		2025/09/16 16:00	2025/09/17 10:15	2025/09/17 11:30		2025/09/15 18:30	2025/09/15 13:00	2025/09/15 15:00		
COC Number		114300	114300	114300		114300	114300	114300		
	UNITS	**SW16-8**	**SW21-5**	**SW24-4**	**QC Batch**	**TUL-09/W51**	**SW24-6**	**SW24-7**	**RDL**	**QC Batch**
Total Vanadium (V)	ug/L	<0.20	0.38	0.43	C100652	4.78	5.45	3.35	0.20	C100359
Total Zinc (Zn)	ug/L	9.6	1.0	8.6	C100652	8.9	10.3	6.7	1.0	C100359
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	C100652	<0.10	0.12	<0.10	0.10	C100359
Total Calcium (Ca)	mg/L	31.2	13.7	17.1	C096820	11.1	11.2	11.2	0.25	C096820
Total Magnesium (Mg)	mg/L	1.47	1.06	1.74	C096820	1.98	2.28	1.74	0.25	C096820
Total Potassium (K)	mg/L	0.65	<0.25	1.24	C096820	1.17	1.29	1.07	0.25	C096820
Total Sodium (Na)	mg/L	0.83	0.32	1.44	C096820	0.60	0.79	0.57	0.25	C096820
Total Sulphur (S)	mg/L	<3.0	<3.0	6.0	C096820	3.7	3.8	3.7	3.0	C096820
RDL = Reportable Detection Limit										

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LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN316	DTN317	DTN318	DTN319	DTN320	DTN321		
Sampling Date		2025/09/15 00:00	2025/09/17 08:45	2025/09/17 09:15	2025/09/15 16:30	2025/09/15 13:05	2025/09/17 10:20		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	SW24-8	SW24-10	TUL-12	W32/TUL-15	25-09-DUP01	25-09-DUP03	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	70.8	36.0	38.2	37.6	38.9	35.3	0.50	C097973
Elements									
Total Mercury (Hg)	ug/L	<0.0019	0.0021	<0.0019	<0.0019	<0.0019	<0.0019	0.0019	C101301
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	6.5	1900	115	2150	1870	177	3.0	C100359
Total Antimony (Sb)	ug/L	0.125	0.176	0.204	0.155	0.151	0.230	0.020	C100359
Total Arsenic (As)	ug/L	0.228	1.73	1.26	1.76	1.56	1.60	0.020	C100359
Total Barium (Ba)	ug/L	52.9	51.0	16.0	53.5	53.4	10.8	0.050	C100359
Total Beryllium (Be)	ug/L	<0.010	0.060	<0.010	0.054	0.051	<0.010	0.010	C100359
Total Bismuth (Bi)	ug/L	<0.010	0.056	<0.010	0.055	0.058	<0.010	0.010	C100359
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	C100359
Total Cadmium (Cd)	ug/L	0.0111	0.0454	0.0286	0.0480	0.0393	<0.0050	0.0050	C100359
Total Chromium (Cr)	ug/L	<0.10	2.85	0.22	3.36	2.85	0.36	0.10	C100359
Total Cobalt (Co)	ug/L	0.013	1.10	0.060	1.22	1.09	0.098	0.010	C100359
Total Copper (Cu)	ug/L	0.30	4.27	0.56	4.50	4.26	0.42	0.10	C100359
Total Iron (Fe)	ug/L	9.2	2410	111	2740	2390	189	5.0	C100359
Total Lead (Pb)	ug/L	<0.020	1.49	0.049	1.49	1.47	0.034	0.020	C100359
Total Lithium (Li)	ug/L	<0.50	1.58	<0.50	1.75	1.50	<0.50	0.50	C100359
Total Manganese (Mn)	ug/L	0.55	58.1	3.96	63.3	56.8	6.64	0.10	C100359
Total Molybdenum (Mo)	ug/L	2.32	1.90	0.948	1.90	2.02	0.423	0.050	C100359
Total Nickel (Ni)	ug/L	0.41	3.50	0.18	3.89	3.44	0.26	0.10	C100359
Total Phosphorus (P)	ug/L	<5.0	40.9	7.6	43.0	37.5	11.8	5.0	C100359
Total Selenium (Se)	ug/L	0.349	0.152	0.158	0.156	0.172	0.125	0.040	C100359
Total Silicon (Si)	ug/L	1910	3510	805	3870	3500	655	50	C100359
Total Silver (Ag)	ug/L	<0.010	0.020	<0.010	0.020	0.018	<0.010	0.010	C100359
Total Strontium (Sr)	ug/L	94.1	56.9	52.7	58.5	58.3	49.4	0.050	C100359
Total Thallium (Tl)	ug/L	0.0021	0.0277	0.0028	0.0297	0.0267	<0.0020	0.0020	C100359
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C100359
Total Titanium (Ti)	ug/L	<2.0	106	3.4	118	102	6.6	2.0	C100359
Total Uranium (U)	ug/L	0.369	0.402	0.190	0.399	0.414	0.165	0.0050	C100359

RDL = Reportable Detection Limit

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Bureau Veritas Job #: C580567
Report Date: 2025/10/01

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN316	DTN317	DTN318	DTN319	DTN320	DTN321		
Sampling Date		2025/09/15 00:00	2025/09/17 08:45	2025/09/17 09:15	2025/09/15 16:30	2025/09/15 13:05	2025/09/17 10:20		
COC Number		114300	114300	114300	114300	114300	114300		
	UNITS	**SW24-8**	**SW24-10**	**TUL-12**	**W32/TUL-15**	**25-09-DUP01**	**25-09-DUP03**	**RDL**	**QC Batch**
Total Vanadium (V)	ug/L	<0.20	5.18	0.35	5.87	5.17	0.55	0.20	C100359
Total Zinc (Zn)	ug/L	1.3	10.8	3.8	10.4	9.9	<1.0	1.0	C100359
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	C100359
Total Calcium (Ca)	mg/L	23.9	11.0	13.6	11.3	12.0	12.5	0.25	C096820
Total Magnesium (Mg)	mg/L	2.73	2.09	1.03	2.26	2.19	0.96	0.25	C096820
Total Potassium (K)	mg/L	1.78	1.20	0.43	1.25	1.30	<0.25	0.25	C096820
Total Sodium (Na)	mg/L	2.20	0.65	0.42	0.70	0.78	0.28	0.25	C096820
Total Sulphur (S)	mg/L	6.5	3.6	<3.0	3.4	3.8	<3.0	3.0	C096820
RDL = Reportable Detection Limit									

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Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN322	DTN323	DTN324		
Sampling Date		2025/09/18 10:35	2025/09/17 11:45	2025/09/19 12:00		
COC Number		114300	114300	114300		
	UNITS	25-09-DUP04	25-09-FB02	25-09-FB03	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	38.1	<0.50	<0.50	0.50	C097973
Elements						
Total Mercury (Hg)	ug/L	<0.0019	<0.0019	<0.0019	0.0019	C101301
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	2940	<3.0	<3.0	3.0	C100359
Total Antimony (Sb)	ug/L	0.128	<0.020	<0.020	0.020	C100359
Total Arsenic (As)	ug/L	0.987	<0.020	<0.020	0.020	C100359
Total Barium (Ba)	ug/L	125	<0.050	<0.050	0.050	C100359
Total Beryllium (Be)	ug/L	0.079	<0.010	<0.010	0.010	C100359
Total Bismuth (Bi)	ug/L	0.030	<0.010	<0.010	0.010	C100359
Total Boron (B)	ug/L	<10	<10	<10	10	C100359
Total Cadmium (Cd)	ug/L	0.0866	<0.0050	<0.0050	0.0050	C100359
Total Chromium (Cr)	ug/L	10.5	<0.10	<0.10	0.10	C100359
Total Cobalt (Co)	ug/L	2.42	<0.010	<0.010	0.010	C100359
Total Copper (Cu)	ug/L	11.4	<0.10	<0.10	0.10	C100359
Total Iron (Fe)	ug/L	5260	<5.0	<5.0	5.0	C100359
Total Lead (Pb)	ug/L	1.29	<0.020	<0.020	0.020	C100359
Total Lithium (Li)	ug/L	2.68	<0.50	<0.50	0.50	C100359
Total Manganese (Mn)	ug/L	142	<0.10	<0.10	0.10	C100359
Total Molybdenum (Mo)	ug/L	1.27	<0.050	<0.050	0.050	C100359
Total Nickel (Ni)	ug/L	12.5	<0.10	<0.10	0.10	C100359
Total Phosphorus (P)	ug/L	85.3	<5.0	<5.0	5.0	C100359
Total Selenium (Se)	ug/L	0.237	<0.040	<0.040	0.040	C100359
Total Silicon (Si)	ug/L	4880	<50	<50	50	C100359
Total Silver (Ag)	ug/L	0.036	<0.010	<0.010	0.010	C100359
Total Strontium (Sr)	ug/L	33.6	<0.050	<0.050	0.050	C100359
Total Thallium (Tl)	ug/L	0.0472	<0.0020	<0.0020	0.0020	C100359
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	C100359
Total Titanium (Ti)	ug/L	134	<2.0	<2.0	2.0	C100359
Total Uranium (U)	ug/L	0.285	<0.0050	<0.0050	0.0050	C100359

RDL = Reportable Detection Limit

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Site Location: TULSEQUAH CHIEF, BC
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Sampler Initials: ER

LL TOTAL METALS (DIGESTED) WITH CV HG

Bureau Veritas ID		DTN322	DTN323	DTN324		
Sampling Date		2025/09/18 10:35	2025/09/17 11:45	2025/09/19 12:00		
COC Number		114300	114300	114300		
	UNITS	**25-09-DUP04**	**25-09-FB02**	**25-09-FB03**	**RDL**	**QC Batch**
Total Vanadium (V)	ug/L	12.3	<0.20	<0.20	0.20	C100359
Total Zinc (Zn)	ug/L	17.6	<1.0	<1.0	1.0	C100359
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	C100359
Total Calcium (Ca)	mg/L	9.12	<0.25	<0.25	0.25	C096820
Total Magnesium (Mg)	mg/L	3.71	<0.25	<0.25	0.25	C096820
Total Potassium (K)	mg/L	1.27	<0.25	<0.25	0.25	C096820
Total Sodium (Na)	mg/L	0.28	<0.25	<0.25	0.25	C096820
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	3.0	C096820
RDL = Reportable Detection Limit						

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GENERAL COMMENTS

Sample DTN291 [W10/TUL-00] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN292 [TUL-06/SW16-3] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN293 [SW21-2] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN294 [SW24-2] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN295 [TUL-03] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN296 [TUL-05] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN297 [W27] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN298 [WTP Pond] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN299 [SE-2] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN300 [5200 Level Adit] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN301 [5400 Level Adit] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified

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hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN302 [SW16-1] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN303 [CC-02] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN304 [SW24-1] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN305 [SW24-11] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN306 [W11] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN307 [W44] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR).

Sample DTN308 [W45] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR).

Sample DTN309 [W46/SW21-4] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN310 [SW16-8] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR).

Sample DTN311 [SW21-5] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

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Sample DTN312 [SW24-4] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN313 [TUL-09/W51] : Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR).

Sample DTN314 [SW24-6] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN315 [SW24-7] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN316 [SW24-8] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN317 [SW24-10] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN318 [TUL-12] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Sample DTN319 [W32/TUL-15] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN320 [25-09-DUP01] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN321 [25-09-DUP03] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

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Sample DTN322 [25-09-DUP04] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN323 [25-09-FB02] : Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate + Nitrite (N). Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN324 [25-09-FB03] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN325 [25-09-FB04] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water.

Sample DTN326 [25-09-TB01] : Sample received past method specified hold time for Nitrate + Nitrite (N). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) Regular Level Water. Sample was analyzed past method specified hold time for Orthophosphate by Automated Analyzer.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C099148	Dissolved Organic Carbon (C)	2025/09/24	103	80 - 120	99	80 - 120	<0.50	mg/L	NC	20
C099152	Dissolved Organic Carbon (C)	2025/09/24	101	80 - 120	95	80 - 120	<0.50	mg/L	NC	20
C099413	Total Suspended Solids	2025/09/25	105	80 - 120	102	80 - 120	<1.0	mg/L	9.4	20
C099416	Total Suspended Solids	2025/09/25	104	80 - 120	101	80 - 120	<1.0	mg/L	0	20
C099732	Total Ammonia (N)	2025/09/26	104	80 - 120	107	80 - 120	<0.015	mg/L	NC	20
C099759	Total Ammonia (N)	2025/09/26	102	80 - 120	108	80 - 120	<0.015	mg/L	NC	20
C099760	Total Ammonia (N)	2025/09/26	104	80 - 120	107	80 - 120	<0.015	mg/L	NC	20
C100190	Dissolved Organic Carbon (C)	2025/09/25	106	80 - 120	100	80 - 120	<0.50	mg/L	NC	20
C100256	Total Suspended Solids	2025/09/26	105	80 - 120	99	80 - 120	<1.0	mg/L	0	20
C100257	Total Suspended Solids	2025/09/26	105	80 - 120	97	80 - 120	<1.0	mg/L	3.5	20
C100348	Total Nitrogen (N)	2025/09/29	77 (1)	80 - 120	99	80 - 120	<0.020	mg/L	8.1	20
C100349	Total Nitrogen (N)	2025/09/29	88	80 - 120	103	80 - 120	<0.020	mg/L	9.1	20
C100354	Total Nitrogen (N)	2025/09/29	132 (1)	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
C100359	Total Aluminum (Al)	2025/09/26	107	80 - 120	98	80 - 120	<3.0	ug/L	3.2	20
C100359	Total Antimony (Sb)	2025/09/26	103	80 - 120	100	80 - 120	<0.020	ug/L	3.5	20
C100359	Total Arsenic (As)	2025/09/26	106	80 - 120	102	80 - 120	<0.020	ug/L	3.4	20
C100359	Total Barium (Ba)	2025/09/26	103	80 - 120	101	80 - 120	<0.050	ug/L	1.2	20
C100359	Total Beryllium (Be)	2025/09/26	98	80 - 120	96	80 - 120	<0.010	ug/L	NC	20
C100359	Total Bismuth (Bi)	2025/09/26	101	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
C100359	Total Boron (B)	2025/09/26	101	80 - 120	98	80 - 120	<10	ug/L	NC	20
C100359	Total Cadmium (Cd)	2025/09/26	105	80 - 120	101	80 - 120	<0.0050	ug/L	6.5	20
C100359	Total Chromium (Cr)	2025/09/26	99	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
C100359	Total Cobalt (Co)	2025/09/26	95	80 - 120	95	80 - 120	<0.010	ug/L	1.6	20
C100359	Total Copper (Cu)	2025/09/26	94	80 - 120	94	80 - 120	<0.10	ug/L	8.2	20
C100359	Total Iron (Fe)	2025/09/26	113	80 - 120	104	80 - 120	<5.0	ug/L	6.5	20
C100359	Total Lead (Pb)	2025/09/26	100	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
C100359	Total Lithium (Li)	2025/09/26	96	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
C100359	Total Manganese (Mn)	2025/09/26	103	80 - 120	100	80 - 120	<0.10	ug/L	3.7	20
C100359	Total Molybdenum (Mo)	2025/09/26	107	80 - 120	101	80 - 120	<0.050	ug/L	2.5	20
C100359	Total Nickel (Ni)	2025/09/26	99	80 - 120	100	80 - 120	<0.10	ug/L	0.78	20
C100359	Total Phosphorus (P)	2025/09/26	103	80 - 120	99	80 - 120	<5.0	ug/L	3.5	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C100359	Total Selenium (Se)	2025/09/26	104	80 - 120	104	80 - 120	<0.040	ug/L	10	20
C100359	Total Silicon (Si)	2025/09/26	106	80 - 120	104	80 - 120	<50	ug/L	0.78	20
C100359	Total Silver (Ag)	2025/09/26	103	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
C100359	Total Strontium (Sr)	2025/09/26	NC	80 - 120	100	80 - 120	<0.050	ug/L	5.2	20
C100359	Total Thallium (Tl)	2025/09/26	102	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
C100359	Total Tin (Sn)	2025/09/26	100	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
C100359	Total Titanium (Ti)	2025/09/26	107	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
C100359	Total Uranium (U)	2025/09/26	111	80 - 120	112	80 - 120	<0.0050	ug/L	3.0	20
C100359	Total Vanadium (V)	2025/09/26	104	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
C100359	Total Zinc (Zn)	2025/09/26	101	80 - 120	100	80 - 120	<1.0	ug/L	1.7	20
C100359	Total Zirconium (Zr)	2025/09/26	109	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
C100652	Total Aluminum (Al)	2025/09/29	NC	80 - 120	110	80 - 120	<3.0	ug/L	5.1	20
C100652	Total Antimony (Sb)	2025/09/29	106	80 - 120	109	80 - 120	<0.020	ug/L	2.1	20
C100652	Total Arsenic (As)	2025/09/29	108	80 - 120	111	80 - 120	<0.020	ug/L	1.4	20
C100652	Total Barium (Ba)	2025/09/29	107	80 - 120	108	80 - 120	<0.050	ug/L	2.4	20
C100652	Total Beryllium (Be)	2025/09/29	107	80 - 120	107	80 - 120	<0.010	ug/L	NC	20
C100652	Total Bismuth (Bi)	2025/09/29	105	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
C100652	Total Boron (B)	2025/09/29	107	80 - 120	108	80 - 120	<10	ug/L	NC	20
C100652	Total Cadmium (Cd)	2025/09/29	101	80 - 120	109	80 - 120	<0.0050	ug/L	1.0	20
C100652	Total Chromium (Cr)	2025/09/29	108	80 - 120	108	80 - 120	<0.10	ug/L	2.9	20
C100652	Total Cobalt (Co)	2025/09/29	101	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
C100652	Total Copper (Cu)	2025/09/29	NC	80 - 120	105	80 - 120	<0.10	ug/L	2.6	20
C100652	Total Iron (Fe)	2025/09/29	122 (1)	80 - 120	112	80 - 120	<5.0	ug/L	6.7	20
C100652	Total Lead (Pb)	2025/09/29	106	80 - 120	105	80 - 120	<0.020	ug/L	6.2	20
C100652	Total Lithium (Li)	2025/09/29	104	80 - 120	106	80 - 120	<0.50	ug/L	NC	20
C100652	Total Manganese (Mn)	2025/09/29	NC	80 - 120	109	80 - 120	<0.10	ug/L	2.0	20
C100652	Total Molybdenum (Mo)	2025/09/29	111	80 - 120	112	80 - 120	<0.050	ug/L	2.8	20
C100652	Total Nickel (Ni)	2025/09/29	107	80 - 120	107	80 - 120	<0.10	ug/L	3.4	20
C100652	Total Phosphorus (P)	2025/09/29	110	80 - 120	108	80 - 120	<5.0	ug/L	4.8	20
C100652	Total Selenium (Se)	2025/09/29	106	80 - 120	109	80 - 120	<0.040	ug/L	2.2	20
C100652	Total Silicon (Si)	2025/09/29	109	80 - 120	113	80 - 120	<50	ug/L	0.80	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C100652	Total Silver (Ag)	2025/09/29	107	80 - 120	108	80 - 120	<0.010	ug/L	NC	20
C100652	Total Strontium (Sr)	2025/09/29	NC	80 - 120	112	80 - 120	<0.050	ug/L	1.6	20
C100652	Total Thallium (Tl)	2025/09/29	106	80 - 120	107	80 - 120	<0.0020	ug/L	13	20
C100652	Total Tin (Sn)	2025/09/29	107	80 - 120	110	80 - 120	<0.20	ug/L	NC	20
C100652	Total Titanium (Ti)	2025/09/29	113	80 - 120	111	80 - 120	<2.0	ug/L	NC	20
C100652	Total Uranium (U)	2025/09/29	100	80 - 120	99	80 - 120	<0.0050	ug/L	5.3	20
C100652	Total Vanadium (V)	2025/09/29	108	80 - 120	107	80 - 120	<0.20	ug/L	NC	20
C100652	Total Zinc (Zn)	2025/09/29	NC	80 - 120	107	80 - 120	<1.0	ug/L	0.64	20
C100652	Total Zirconium (Zr)	2025/09/29	107	80 - 120	112	80 - 120	<0.10	ug/L	NC	20
C100701	Total Aluminum (Al)	2025/09/26	101	80 - 120	102	80 - 120	<3.0	ug/L	0.49	20
C100701	Total Antimony (Sb)	2025/09/26	NC	80 - 120	102	80 - 120	<0.020	ug/L	0.87	20
C100701	Total Arsenic (As)	2025/09/26	106	80 - 120	104	80 - 120	<0.020	ug/L	0.71	20
C100701	Total Barium (Ba)	2025/09/26	101	80 - 120	103	80 - 120	<0.050	ug/L	1.4	20
C100701	Total Beryllium (Be)	2025/09/26	94	80 - 120	94	80 - 120	<0.010	ug/L	NC	20
C100701	Total Bismuth (Bi)	2025/09/26	101	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
C100701	Total Boron (B)	2025/09/26	96	80 - 120	97	80 - 120	<10	ug/L	NC	20
C100701	Total Cadmium (Cd)	2025/09/26	103	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
C100701	Total Chromium (Cr)	2025/09/26	97	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
C100701	Total Cobalt (Co)	2025/09/26	94	80 - 120	98	80 - 120	<0.010	ug/L	NC	20
C100701	Total Copper (Cu)	2025/09/26	102	80 - 120	97	80 - 120	<0.10	ug/L	6.2	20
C100701	Total Iron (Fe)	2025/09/26	109	80 - 120	108	80 - 120	<5.0	ug/L	NC	20
C100701	Total Lead (Pb)	2025/09/26	101	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
C100701	Total Lithium (Li)	2025/09/26	92	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
C100701	Total Manganese (Mn)	2025/09/26	99	80 - 120	104	80 - 120	<0.10	ug/L	2.0	20
C100701	Total Molybdenum (Mo)	2025/09/26	109	80 - 120	106	80 - 120	<0.050	ug/L	3.5	20
C100701	Total Nickel (Ni)	2025/09/26	97	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
C100701	Total Phosphorus (P)	2025/09/26	107	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
C100701	Total Selenium (Se)	2025/09/26	107	80 - 120	106	80 - 120	<0.040	ug/L	11	20
C100701	Total Silicon (Si)	2025/09/26	107	80 - 120	108	80 - 120	<50	ug/L	2.7	20
C100701	Total Silver (Ag)	2025/09/26	102	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
C100701	Total Strontium (Sr)	2025/09/26	NC	80 - 120	103	80 - 120	<0.050	ug/L	1.5	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C100701	Total Thallium (Tl)	2025/09/26	103	80 - 120	103	80 - 120	<0.0020	ug/L	NC	20
C100701	Total Tin (Sn)	2025/09/26	96	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
C100701	Total Titanium (Ti)	2025/09/26	105	80 - 120	105	80 - 120	<2.0	ug/L	NC	20
C100701	Total Uranium (U)	2025/09/26	110	80 - 120	110	80 - 120	<0.0050	ug/L	0.80	20
C100701	Total Vanadium (V)	2025/09/26	103	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
C100701	Total Zinc (Zn)	2025/09/26	NC	80 - 120	104	80 - 120	<1.0	ug/L	0.30	20
C100701	Total Zirconium (Zr)	2025/09/26	108	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
C100719	Alkalinity (PP as CaCO3)	2025/09/25					<1.0	mg/L	NC	20
C100719	Alkalinity (Total as CaCO3)	2025/09/25			96	80 - 120	<1.0	mg/L	1.5	20
C100719	Bicarbonate (HCO3)	2025/09/25					<1.0	mg/L	1.5	20
C100719	Carbonate (CO3)	2025/09/25					<1.0	mg/L	NC	20
C100719	Hydroxide (OH)	2025/09/25					<1.0	mg/L	NC	20
C100731	Conductivity	2025/09/25			102	90 - 110	<2.0	uS/cm		
C100733	pH	2025/09/25			100	97 - 103			0.24	N/A
C100933	Total Aluminum (Al)	2025/09/29	97	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
C100933	Total Antimony (Sb)	2025/09/29	103	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
C100933	Total Arsenic (As)	2025/09/29	103	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
C100933	Total Barium (Ba)	2025/09/29	103	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
C100933	Total Beryllium (Be)	2025/09/29	101	80 - 120	98	80 - 120	<0.010	ug/L	NC	20
C100933	Total Bismuth (Bi)	2025/09/29	99	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
C100933	Total Boron (B)	2025/09/29	92	80 - 120	93	80 - 120	<10	ug/L	NC	20
C100933	Total Cadmium (Cd)	2025/09/29	103	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
C100933	Total Chromium (Cr)	2025/09/29	102	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
C100933	Total Cobalt (Co)	2025/09/29	96	80 - 120	93	80 - 120	<0.0050	ug/L	NC	20
C100933	Total Copper (Cu)	2025/09/29	95	80 - 120	93	80 - 120	<0.050	ug/L	NC	20
C100933	Total Iron (Fe)	2025/09/29	102	80 - 120	100	80 - 120	<1.0	ug/L	0.96	20
C100933	Total Lead (Pb)	2025/09/29	102	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
C100933	Total Lithium (Li)	2025/09/29	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
C100933	Total Manganese (Mn)	2025/09/29	101	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
C100933	Total Molybdenum (Mo)	2025/09/29	104	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
C100933	Total Nickel (Ni)	2025/09/29	100	80 - 120	97	80 - 120	<0.020	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C100933	Total Phosphorus (P)	2025/09/29	99	80 - 120	97	80 - 120	<2.0	ug/L	NC	20
C100933	Total Selenium (Se)	2025/09/29	102	80 - 120	98	80 - 120	<0.040	ug/L	NC	20
C100933	Total Silicon (Si)	2025/09/29	98	80 - 120	95	80 - 120	<50	ug/L	NC	20
C100933	Total Silver (Ag)	2025/09/29	103	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
C100933	Total Strontium (Sr)	2025/09/29	102	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
C100933	Total Thallium (Tl)	2025/09/29	103	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
C100933	Total Tin (Sn)	2025/09/29	102	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
C100933	Total Titanium (Ti)	2025/09/29	102	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
C100933	Total Uranium (U)	2025/09/29	106	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
C100933	Total Vanadium (V)	2025/09/29	102	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
C100933	Total Zinc (Zn)	2025/09/29	101	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
C100933	Total Zirconium (Zr)	2025/09/29	103	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
C100968	Nitrate plus Nitrite (N)	2025/09/25	117	80 - 120	111	80 - 120	<0.020	mg/L	1.0	25
C100971	Nitrite (N)	2025/09/25	108	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20
C100987	Alkalinity (PP as CaCO3)	2025/09/25					<1.0	mg/L	NC	20
C100987	Alkalinity (Total as CaCO3)	2025/09/25			96	80 - 120	<1.0	mg/L	0.99	20
C100987	Bicarbonate (HCO3)	2025/09/25					<1.0	mg/L	0.99	20
C100987	Carbonate (CO3)	2025/09/25					<1.0	mg/L	NC	20
C100987	Hydroxide (OH)	2025/09/25					<1.0	mg/L	NC	20
C100989	Nitrate plus Nitrite (N)	2025/09/25	112	80 - 120	109	80 - 120	<0.020	mg/L	NC	25
C100990	Conductivity	2025/09/25			102	90 - 110	<2.0	uS/cm	0.076	10
C100991	pH	2025/09/25			100	97 - 103			0.43	N/A
C100995	Nitrite (N)	2025/09/25	107	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20
C101003	Nitrate plus Nitrite (N)	2025/09/25	101	80 - 120	111	80 - 120	<0.020	mg/L	9.8	25
C101008	Nitrite (N)	2025/09/25	97	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20
C101011	Alkalinity (PP as CaCO3)	2025/09/26					<1.0	mg/L	NC	20
C101011	Alkalinity (Total as CaCO3)	2025/09/26			98	80 - 120	<1.0	mg/L	NC	20
C101011	Bicarbonate (HCO3)	2025/09/26					<1.0	mg/L	NC	20
C101011	Carbonate (CO3)	2025/09/26					<1.0	mg/L	NC	20
C101011	Hydroxide (OH)	2025/09/26					<1.0	mg/L	NC	20
C101014	Conductivity	2025/09/26			103	90 - 110	<2.0	uS/cm	NC	10

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C101015	pH	2025/09/26			100	97 - 103			0.71	N/A
C101225	Orthophosphate (P)	2025/09/25	82	80 - 120	98	80 - 120	<0.0030	mg/L	NC	20
C101228	Orthophosphate (P)	2025/09/25	71 (2)	80 - 120	100	80 - 120	<0.0030	mg/L	NC	20
C101233	Orthophosphate (P)	2025/09/25	89	80 - 120	101	80 - 120	<0.0030	mg/L	NC	20
C101258	Dissolved Mercury (Hg)	2025/09/26	100	80 - 120	101	80 - 120	<0.0019	ug/L	NC	20
C101274	Total Mercury (Hg)	2025/09/26	99	80 - 120	104	80 - 120	<0.0019	ug/L	NC	20
C101298	Dissolved Mercury (Hg)	2025/09/27	92	80 - 120	99	80 - 120	<0.0019	ug/L	NC	20
C101301	Total Mercury (Hg)	2025/09/27	100	80 - 120	112	80 - 120	<0.0019	ug/L	1.6	20
C101339	Nitrate plus Nitrite (N)	2025/09/26	82	80 - 120	111	80 - 120	<0.020	mg/L	0.080	25
C101341	Nitrite (N)	2025/09/26	107	80 - 120	104	80 - 120	<0.0050	mg/L	NC	20
C101354	Nitrate plus Nitrite (N)	2025/09/26	110	80 - 120	111	80 - 120	<0.020	mg/L	13	25
C101384	Nitrite (N)	2025/09/26	107	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
C101828	Total Suspended Solids	2025/09/29	107	80 - 120	99	80 - 120	<1.0	mg/L	18	20
C101833	Total Suspended Solids	2025/09/29	108	80 - 120	98	80 - 120	<1.0	mg/L	NC	20
C101834	Total Suspended Solids	2025/09/29	100	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
C102081	Total Phosphorus (P)	2025/09/27	112	N/A	111	80 - 120	<0.0030	mg/L	2.9	20
C102087	Total Phosphorus (P)	2025/09/27	100	N/A	110	80 - 120	<0.0030	mg/L	NC	20
C102089	Total Phosphorus (P)	2025/09/27	109	N/A	111	80 - 120	<0.0030	mg/L	NC	20
C102133	Dissolved Phosphorus (P)	2025/09/27	112	N/A	111	80 - 120	<0.0030	mg/L	NC	20
C102135	Dissolved Fluoride (F)	2025/09/26	111	80 - 120	104	80 - 120	<0.050	mg/L		
C102135	Fluoride (F)	2025/09/26							8.2	20
C102146	Dissolved Phosphorus (P)	2025/09/27	109	N/A	111	80 - 120	<0.0030	mg/L	NC	20
C102231	Dissolved Aluminum (Al)	2025/09/29	101	80 - 120	101	80 - 120	<0.50	ug/L	1.2	20
C102231	Dissolved Antimony (Sb)	2025/09/29	99	80 - 120	104	80 - 120	<0.020	ug/L	1.6	20
C102231	Dissolved Arsenic (As)	2025/09/29	102	80 - 120	102	80 - 120	<0.020	ug/L	1.7	20
C102231	Dissolved Barium (Ba)	2025/09/29	99	80 - 120	103	80 - 120	<0.020	ug/L	0.79	20
C102231	Dissolved Beryllium (Be)	2025/09/29	94	80 - 120	97	80 - 120	<0.010	ug/L	NC	20
C102231	Dissolved Bismuth (Bi)	2025/09/29	100	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
C102231	Dissolved Boron (B)	2025/09/29	97	80 - 120	96	80 - 120	<10	ug/L	NC	20
C102231	Dissolved Cadmium (Cd)	2025/09/29	100	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
C102231	Dissolved Chromium (Cr)	2025/09/29	101	80 - 120	101	80 - 120	<0.10	ug/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C102231	Dissolved Cobalt (Co)	2025/09/29	94	80 - 120	94	80 - 120	<0.0050	ug/L	NC	20
C102231	Dissolved Copper (Cu)	2025/09/29	93	80 - 120	94	80 - 120	<0.050	ug/L	3.9	20
C102231	Dissolved Iron (Fe)	2025/09/29	103	80 - 120	102	80 - 120	<1.0	ug/L	14	20
C102231	Dissolved Lead (Pb)	2025/09/29	100	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
C102231	Dissolved Lithium (Li)	2025/09/29	96	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
C102231	Dissolved Manganese (Mn)	2025/09/29	100	80 - 120	100	80 - 120	<0.050	ug/L	4.8	20
C102231	Dissolved Molybdenum (Mo)	2025/09/29	103	80 - 120	100	80 - 120	<0.050	ug/L	3.5	20
C102231	Dissolved Nickel (Ni)	2025/09/29	98	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
C102231	Dissolved Selenium (Se)	2025/09/29	95	80 - 120	99	80 - 120	<0.040	ug/L	10	20
C102231	Dissolved Silicon (Si)	2025/09/29	94	80 - 120	98	80 - 120	<50	ug/L	1.3	20
C102231	Dissolved Silver (Ag)	2025/09/29	99	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
C102231	Dissolved Strontium (Sr)	2025/09/29	NC	80 - 120	100	80 - 120	<0.050	ug/L	0.34	20
C102231	Dissolved Thallium (Tl)	2025/09/29	103	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
C102231	Dissolved Tin (Sn)	2025/09/29	98	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
C102231	Dissolved Titanium (Ti)	2025/09/29	104	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
C102231	Dissolved Uranium (U)	2025/09/29	103	80 - 120	105	80 - 120	<0.0020	ug/L	1.1	20
C102231	Dissolved Vanadium (V)	2025/09/29	101	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
C102231	Dissolved Zinc (Zn)	2025/09/29	99	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
C102231	Dissolved Zirconium (Zr)	2025/09/29	100	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
C102241	Dissolved Aluminum (Al)	2025/09/30	101	80 - 120	99	80 - 120	<0.50	ug/L	0.11	20
C102241	Dissolved Antimony (Sb)	2025/09/30	102	80 - 120	101	80 - 120	<0.020	ug/L	6.4	20
C102241	Dissolved Arsenic (As)	2025/09/30	104	80 - 120	102	80 - 120	<0.020	ug/L	4.8	20
C102241	Dissolved Barium (Ba)	2025/09/30	100	80 - 120	99	80 - 120	<0.020	ug/L	2.7	20
C102241	Dissolved Beryllium (Be)	2025/09/30	102	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
C102241	Dissolved Bismuth (Bi)	2025/09/30	98	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
C102241	Dissolved Boron (B)	2025/09/30	103	80 - 120	100	80 - 120	<10	ug/L	NC	20
C102241	Dissolved Cadmium (Cd)	2025/09/30	104	80 - 120	101	80 - 120	<0.0050	ug/L	15	20
C102241	Dissolved Chromium (Cr)	2025/09/30	102	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
C102241	Dissolved Cobalt (Co)	2025/09/30	95	80 - 120	93	80 - 120	<0.0050	ug/L	13	20
C102241	Dissolved Copper (Cu)	2025/09/30	100	80 - 120	98	80 - 120	<0.050	ug/L	1.6	20
C102241	Dissolved Iron (Fe)	2025/09/30	105	80 - 120	102	80 - 120	<1.0	ug/L	3.1	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C102241	Dissolved Lead (Pb)	2025/09/30	97	80 - 120	96	80 - 120	<0.0050	ug/L	11	20
C102241	Dissolved Lithium (Li)	2025/09/30	97	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
C102241	Dissolved Manganese (Mn)	2025/09/30	101	80 - 120	98	80 - 120	<0.050	ug/L	2.7	20
C102241	Dissolved Molybdenum (Mo)	2025/09/30	103	80 - 120	100	80 - 120	<0.050	ug/L	5.6	20
C102241	Dissolved Nickel (Ni)	2025/09/30	100	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
C102241	Dissolved Selenium (Se)	2025/09/30	103	80 - 120	102	80 - 120	<0.040	ug/L	10	20
C102241	Dissolved Silicon (Si)	2025/09/30	102	80 - 120	100	80 - 120	<50	ug/L	1.6	20
C102241	Dissolved Silver (Ag)	2025/09/30	103	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
C102241	Dissolved Strontium (Sr)	2025/09/30	102	80 - 120	102	80 - 120	<0.050	ug/L	0.41	20
C102241	Dissolved Thallium (Tl)	2025/09/30	99	80 - 120	98	80 - 120	<0.0020	ug/L	15	20
C102241	Dissolved Tin (Sn)	2025/09/30	100	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
C102241	Dissolved Titanium (Ti)	2025/09/30	105	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
C102241	Dissolved Uranium (U)	2025/09/30	87	80 - 120	84	80 - 120	<0.0020	ug/L	1.8	20
C102241	Dissolved Vanadium (V)	2025/09/30	103	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
C102241	Dissolved Zinc (Zn)	2025/09/30	101	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
C102241	Dissolved Zirconium (Zr)	2025/09/30	105	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
C102923	Chloride (Cl)	2025/09/26	104	80 - 120	105	80 - 120	<1.0	mg/L	NC	20
C102923	Sulphate (SO4)	2025/09/26	106	80 - 120	91	80 - 120	<1.0	mg/L	NC	20
C102945	Chloride (Cl)	2025/09/26	109	80 - 120	108	80 - 120	<1.0	mg/L	NC	20
C102945	Sulphate (SO4)	2025/09/26	108	80 - 120	92	80 - 120	<1.0	mg/L	NC	20
C102998	Dissolved Fluoride (F)	2025/09/27	102	80 - 120	105	80 - 120	<0.050	mg/L		
C102998	Fluoride (F)	2025/09/27							NC	20
C103368	Dissolved Fluoride (F)	2025/09/27	114	80 - 120	102	80 - 120	<0.050	mg/L		
C103368	Fluoride (F)	2025/09/27							13	20
C103372	Dissolved Fluoride (F)	2025/09/27	109	80 - 120	99	80 - 120	<0.050	mg/L		
C103372	Fluoride (F)	2025/09/27							3.2	20
C103446	Total Suspended Solids	2025/09/29	107	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
C103569	Dissolved Mercury (Hg)	2025/09/27	101	80 - 120	111	80 - 120	<0.0019	ug/L	NC	20
C104461	Total Mercury (Hg)	2025/09/29	104	80 - 120	103	80 - 120	<0.0019	ug/L	2.5	20
C104464	Total Ammonia (N)	2025/09/29	NC	80 - 120	108	80 - 120	<0.015	mg/L	0.50	20
C104523	Chloride (Cl)	2025/09/29	102	80 - 120	103	80 - 120	<1.0	mg/L	NC	20

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
C104523	Sulphate (SO4)	2025/09/29	100	80 - 120	102	80 - 120	<1.0	mg/L	13	20
C104741	Chloride (Cl)	2025/09/29	NC	80 - 120	105	80 - 120	<1.0	mg/L	0.18	20
C104741	Sulphate (SO4)	2025/09/29	NC	80 - 120	94	80 - 120	<1.0	mg/L	2.7	20
C104805	Chloride (Cl)	2025/09/29	NC	80 - 120	107	80 - 120	<1.0	mg/L	0.51	20
C104805	Sulphate (SO4)	2025/09/29	104	80 - 120	97	80 - 120	<1.0	mg/L	1.3	20
C105367	Alkalinity (PP as CaCO3)	2025/09/30					<1.0	mg/L	NC	20
C105367	Alkalinity (Total as CaCO3)	2025/09/30			99	80 - 120	<1.0	mg/L	2.3	20
C105367	Bicarbonate (HCO3)	2025/09/30					<1.0	mg/L		
C105367	Carbonate (CO3)	2025/09/30					<1.0	mg/L		
C105367	Hydroxide (OH)	2025/09/30					<1.0	mg/L		
C105424	Conductivity	2025/09/30			100	90 - 110	<2.0	uS/cm	0	10
C105425	pH	2025/09/30			100	97 - 103			0.016	N/A
C107527	Nitrate plus Nitrite (N)	2025/10/01			111	80 - 120	<0.020	mg/L	NC	25
C107573	Nitrite (N)	2025/10/01	90	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20
C107601	Orthophosphate (P)	2025/10/01	92	80 - 120	111	80 - 120	<0.0030	mg/L	NC	20
C107609	Dissolved Fluoride (F)	2025/10/01	NC	80 - 120	102	80 - 120	<0.050	mg/L		
C107609	Fluoride (F)	2025/10/01							2.0	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Job #: C580567
Report Date: 2025/10/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Mauro Oselin, P.Chem., QP, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Custody Tracking Form

TCM SW

W114300-H

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: W10/TUL-00
Last Sample: 25-09-TB01
Sample Count: 36

Relinquished By				Received By			
Éliane Roy		Date	25/09/22	Sanjay Saipanpudur Paramesuaran	SP	Date	2025/09/23
		Time (24 HR)	1105			Time (24 HR)	12:30
		Date				Date	
		Time (24 HR)				Time (24 HR)	
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print): ÉR / BC

of Coolers/Pkgs: 5

Immediate Test ☐ Rush ☐ Micro ☐

***** LABORATORY USE ONLY *****

Received At

Lab Comments:

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
	ACTR				

RECEIVED IN WHITEHORSE
BY: MDuncan @ 1105
2025-09-22
ICE: yes CS: no
TEMP: see temp sheet

C580567_COC

COR FCD-00383/5

Page 1 of 1

eCOC: W114300

Project Information:	C580567
Job Received:	2025/09/23 13:09
Expected TAT:	Standard TAT
Expected Arrival:	2025/09/23
Submitted By:	Eliane Roy
Submitted To:	Burnaby ENV: 4606 Canada Way

Invoice Information

Attn: Irene Tuite
SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse , YT , Y1A 1N2
Email to:
irene.tuite@pecg.ca

Report Information

Attn: Irene Tuite
SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse , YT , Y1A 1N2
Email to:
irene.tuite@pecg.ca
eroy@slrconsulting.com
diana.gawol@slrconsulting.com

Project Information

Quote #:	C50955
PO/AFE#:	WHR438
Project #:	234.030071.00002
Site Location:	TULSEQUAH CHIEF, BC

Analytical Summary

A: Standard TAT
M: Manually added test

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Routine Water- LL D.Metals	Ammonia-N (Total)	Carbon (DOC)	Fluoride	LL T. Metals	Nitrogen (Total)	Orthophosphate by Automated Analyzer	Total Phosphorus	Total Phosphorus Dissolved client FF/FP	Total Suspended Solids (NFR)
W10/TUL-00	1	2025/09/19 11:15	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
TUL-06/SW16-3	2	2025/09/18 09:30	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW21-2	3	2025/09/18 10:30	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-2	4	2025/09/18 17:40	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
TUL-03	5	2025/09/19 09:45	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
TUL-05	6	2025/09/19 09:15	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
W27	7	2025/09/18 12:10	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
WTP Pond	8	2025/09/18 14:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SE-2	9	2025/09/18 14:20	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
5200 Level Adit	10	2025/09/18 15:05	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
5400 Level Adit	11	2025/09/18 16:45	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW16-1	12	2025/09/18 11:45	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A

eCOC: W114300

Project Information: C580567
Job Received: 2025/09/23 13:09
Expected TAT: Standard TAT
Expected Arrival: 2025/09/23
Submitted By: Eliane Roy
Submitted To: Burnaby ENV: 4606 Canada Way

A: Standard TAT
M: Manually added test

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Routine Water- LL D.Metals	Ammonia-N (Total)	Carbon (DOC)	Fluoride	LL T. Metals	Nitrogen (Total)	Orthophosphate by Automated Analyzer	Total Phosphorus	Total Phosphorus Dissolved client FF/FP	Total Suspended Solids (NFR)
CC-02	13	2025/09/18 17:10	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-1	14	2025/09/17 16:30	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-11	15	2025/09/17 14:30	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
W11	16	2025/09/17 11:50	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
W44	17	2025/09/16 15:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
W45	18	2025/09/16 15:20	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
W46/SW21-4	19	2025/09/17 16:20	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW16-8	20	2025/09/16 16:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW21-5	21	2025/09/17 10:15	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-4	22	2025/09/17 11:30	SURFACE WATER	10	A	A	A	A	M	A	A	A	A	A
TUL-09/W51	23	2025/09/15 18:30	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-6	24	2025/09/15 13:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-7	25	2025/09/15 15:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-8	26	2025/09/15 00:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
SW24-10	27	2025/09/17 08:45	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
TUL-12	28	2025/09/17 09:15	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A

eCOC: W114300

Project Information:	C580567
Job Received:	2025/09/23 13:09
Expected TAT:	Standard TAT
Expected Arrival:	2025/09/23
Submitted By:	Eliane Roy
Submitted To:	Burnaby ENV: 4606 Canada Way

A: Standard TAT
M: Manually added test

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Routine Water- LL D.Metals	Ammonia-N (Total)	Carbon (DOC)	Fluoride	LL T. Metals	Nitrogen (Total)	Orthophosphate by Automated Analyzer	Total Phosphorus	Total Phosphorus Dissolved client FF/FP	Total Suspended Solids (NFR)
W32/TUL-15	29	2025/09/15 16:30	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
25-09-DUP01	30	2025/09/15 13:05	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
25-09-DUP03	31	2025/09/17 10:20	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
25-09-DUP04	32	2025/09/18 10:35	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
25-09-FB02	33	2025/09/17 11:45	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
25-09-FB03	34	2025/09/19 12:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
25-09-FB04	35	2025/09/18 14:10	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A
25-09-TB01	36	2025/09/19 16:00	SURFACE WATER	11	A	A	A	A	M	A	A	A	A	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 36

Details: Low Level Total Metals with Mercury entered; lab to select digested prep for turbid sample.

Table 1: Field Parameters in Surface Water

			Field					
			pH (field)	temp (field)	ORP (field)	DO (field)	specific conductivity (field)	turbidity (field)
		Filtered or Total	T	T	T	T	T	T
		RDL						
			pH	deg C	mV	mg/L	µS/cm	NTU
		BC WQG (Approved) AWF, Long-term	6.5-9.0	10	ns	>=8	ns	bkgd +(2) see notes
Zone	Site	Sample Date						
Zone 1	TUL-00/W10	2025-Jun-21	8.06	2.7	172.7	14.19	79.3	46.4
		2025-Jul-20	6.83	3.5	240	13.68	83.3	71.2
		2025-Aug-24	8.03	1.3	197	14.36	68.7	93
		2025-Sep-19	7.96	1.1	109.2	13.96	65.9	85
	SW21-2	2025-Jun-21	7.19	8.2	204.7	11.73	57.9	69
		2025-Jul-18	6.7	7.9	280.9	11.74	52	29.51
		2025-Aug-23	7.69	7.8	119.9	11.82	44.2	65
		2025-Sep-18	7.04	5.4	203.9	13.19	59.5	89
	TUL-03	2025-Jun-23	7.41	1.6	211.2	13.1	79.5	38.2
		2025-Jul-16	7.25	2	251.5	14.21	83.5	69.8
		2025-Aug-24	7.97	2.7	180.2	12.57	68.2	85
		2025-Sep-19	7.43	1.1	166.5	13.47	66.3	75
	TUL-05	2025-Jun-21	7.5	2.9	250.7	14.12	79.5	47.83
		2025-Jul-20	6.86	2.4	245.4	14.05	82	59.6
		2025-Aug-24	7.96	0.8	196.2	14.6	69.2	75
		2025-Sep-19	7.31	1.3	161.2	13.16	67.3	63
	TUL-06/SW16-3	2025-Jun-21	7.51	7.5	147.2	12.55	85	52.75
		2025-Jul-18	7.42	7.4	272.1	12.37	73.5	44
		2025-Aug-22	6.19	6.4	216.7	12.3	60.1	60
		2025-Sep-18	6.74	3.9	228.6	13.7	67.8	89
TRIBUTARY (ZONE 1)	SW16-1	2025-Jun-22	7.4	3.8	226.5	12.79	95.5	61.2
		2025-Jul-19	7.14	5.5	269.5	12.44	94.4	33.2
		2025-Sep-18	7.51	3.2	96.7	13.64	85.6	52
	W27	2025-Jun-23	6.67	6.2	221.6	11.21	100.5	46.62
		2025-Jul-19	7.48	9.7	194.5	11.14	123.2	11
		2025-Aug-24	7.76	8.3	70.1	11.28	156.1	10.12
		2025-Sep-18	7.8	7	140.4	12.22	132.9	83
	SW24-2	2025-Jun-23	7.38	6.9	206.7	11.47	81.9	0
		2025-Jul-19	7.42	10.1	265.6	10.99	102.5	0.23
		2025-Aug-23	8	9.3	224.3	11.63	119.3	0.09
		2025-Sep-18	7.93	8.4	155.6	12.36	125.5	0.11
Effluent	5200 LEVEL ADIT	2025-Jun-21	2.77	6.4	530.7	12.44	1580	1.21
		2025-Jul-18	2.83	6.4	565.3	11.81	1612	2.4
		2025-Aug-23	3	6.3	540.8	12.15	1515	2.32
		2025-Sep-18	3.09	6.4	550.6	12.65	1553	2.29
	5400 LEVEL ADIT	2025-Jun-21	3.55	6	472.5	12.57	512	31.26
		2025-Jul-19	5.43	6.5	319.9	11.73	438	28.23
		2025-Aug-23	4.12	6.4	423.1	12.33	495.8	33.51
		2025-Sep-18	4.76	6.6	358.5	12.56	478	39
	5400 CLEAN WATER PIPE	2025-Jun-21	6.49	7.3	274.6	11.77	433.3	13.2
	5900 LEVEL ADIT	2025-Jun-20	7.58	4.2	165.2	12.68	298.8	2.12
		2025-Jul-19	6.88	3.9	259.3	12.64	306	2.54
		2025-Aug-23	7.54	4	82.6	12.8	314.9	2.62
	SE2	2025-Jun-21	3.26	8.4	495.5	12.19	653	21.17
		2025-Jul-18	3.33	15.2	507.3	10.65	692	29
		2025-Aug-23	3.41	7.3	515	12.15	700	25.98
		2025-Sep-18	3.57	8.3	513	12.46	649	25.53
	WTP POND	2025-Jun-21	7.34	16.8	197.7	11.48	512	4.59
		2025-Jul-18	7.83	20.2	276.7	11.54	508	8.33
		2025-Aug-21	8.29	15.7	168.3	13.73	470.8	6.06
		2025-Sep-18	8.04	12.7	205.7	11.94	458.7	4.87
	6400 LEVEL ADIT	2025-Aug-23	7.84	5.3	202.4	12.32	130.6	0.61

Table 1: Field Parameters in Surface Water

			Field					
			pH (field)	temp (field)	ORP (field)	DO (field)	specific conductivity (field)	turbidity (field)
		Filtered or Total	T	T	T	T	T	T
		RDL						
			pH	deg C	mV	mg/L	µS/cm	NTU
		BC WQG (Approved) AWF, Long-term	6.5-9.0	10	ns	>=8	ns	bkgd +(2) see notes
Zone	Site	Sample Date						
Zone 2	SW24-1	2025-Jun-19	6.94	6.2	243.4	12.76	82.1	38.6
		2025-Jul-18	7.31	3	277.3	13.15	90.5	35.91
		2025-Aug-24	7.88	1.2	192.5	14.27	72	66
		2025-Sep-17	7.34	2.2	200.9	13.62	66.5	74
	SW24-11	2025-Jun-19	7.83	6.4	233.7	12.8	116.6	64.55
		2025-Jul-18	7.35	2.5	283.6	13.78	88	71.7
		2025-Aug-22	6.5	2.7	206.3	13.51	79.5	62
		2025-Sep-17	7.28	3.1	190.9	13.42	74.8	65
	W11	2025-Jun-20	6.29	15.1	189.6	9.98	292	14.23
		2025-Jul-18	6.41	15.8	313.5	10.44	205.1	8.9
		2025-Aug-21	5.06	14	265.6	10.89	344.2	10.6
		2025-Sep-17	5.9	8.1	216.2	11.3	294.7	7.79
	W44	2025-Jun-19	7.42	9.3	241.8	9.81	190.2	7.96
		2025-Jul-18	6.46	6.6	295	7.51	187.3	0
		2025-Aug-22	6.7	8.1	199.3	5.15	185.2	0
		2025-Sep-16	6.26	8	169.3	7.98	211.3	0.33
	W45	2025-Jun-19	6.62	6.7	244.8	6.91	186.7	0.19
		2025-Jul-18	6.65	9.7	284.3	6.69	176.8	0
		2025-Aug-22	6.21	9.2	211	5.98	185.5	0.28
		2025-Sep-16	6.32	7.4	8.7	4.65	173.4	0.28
	W46/SW21-4	2025-Jun-20	7.61	8.4	147.3	1.48	105.2	38.8
		2025-Jul-18	7.54	2.5	284.5	13.64	89.1	64.3
		2025-Aug-24	7.84	1.5	193.7	14.23	77.3	68
		2025-Sep-17	7.53	2.8	182.7	13.26	76.8	62
TRIBUTARY (ZONE 2)	CC-01	2025-Jun-20	7.7	9.3	143	11.97	88.9	0.39
	CC-02	2025-Jun-20	7.84	10.1	162	11.52	86.2	2.2
		2025-Jul-19	7.01	8.1	293.7	11.55	112.4	0.41
		2025-Aug-23	7.88	8.3	272.8	11.91	125.3	1.19
		2025-Sep-18	6.87	7.7	331.6	12.56	129.9	0.19
	CC-04	2025-Jun-20	7.84	8.8	155.5	11.55	68.1	7.42
		2025-Jul-19	7.21	8.2	278.8	11.29	103.7	0
		2025-Aug-23	8	10.6	187	10.82	129.6	1.57
Zone 3	SW16-8	2025-Jun-19	6.98	5.8	238.4	11.05	129.7	3.14
		2025-Jul-17	7.16	12.4	233.1	8.44	123.2	2.13
		2025-Aug-21	6.68	8.4	205.9	7.71	154.5	1.32
		2025-Sep-16	6.39	8.9	209.1	7.79	192.1	0.59
	SW24-4	2025-Jun-19	6.92	6.5	230.6	11.75	160.4	14.78
		2025-Jul-18	6.8	6.8	300.1	6.75	170.6	0.4
		2025-Aug-21	7.77	6.1	189.3	6.72	136.8	2.21
		2025-Sep-17	7.14	4	191	11.18	102.5	2.8
	TUL-09	2025-Jun-19	7.58	3.7	234.2	13.42	108.9	64.5
		2025-Jul-18	7.33	2.3	291.3	13.58	85.5	59.9
		2025-Aug-22	6.58	3.4	201.7	13.5	77.6	65
		2025-Sep-15	7.78	2.3	204.6	13.58	78.1	74
TRIBUTARY (ZONE 3)	SW21-5	2025-Jun-19	7.21	5.8	236.7	12.45	77.6	24
		2025-Jul-17	7.96	10.2	204.7	11.46	66.7	11.8
		2025-Aug-21	7.06	9.3	119.8	11.77	80.7	4.48
		2025-Sep-17	7.48	7.9	160.4	11.73	73.1	6.32

Table 1: Field Parameters in Surface Water

			Field					
			pH (field)	temp (field)	ORP (field)	DO (field)	specific conductivity (field)	turbidity (field)
		Filtered or Total	T	T	T	T	T	T
		RDL						
			pH	deg C	mV	mg/L	µS/cm	NTU
		BC WQG (Approved) AWF, Long-term	6.5-9.0	10	ns	>=8	ns	bkgd +(2) see notes
Zone	Site	Sample Date						
Zone 4	SW24-6	2025-Jun-18	7.91	6.4	194.6	12.99	97	38.4
		2025-Jul-17	7.49	2.4	233	13.96	87.9	55.2
		2025-Aug-22	7.35	2.4	203.9	13.88	80.6	62.03
		2025-Sep-15	7.29	2.6	207.9	12.97	81.6	63
	SW24-7	2025-Jun-18	7.45	4	195.8	13.61	99.9	39
		2025-Jul-17	7.61	3.9	218.5	13.36	88.3	57.3
		2025-Aug-22	7.2	2.6	184.9	13.7	80.1	77.2
		2025-Sep-15	7.53	2.7	216.3	13.09	79.9	58
	SW24-8	2025-Jun-18	7.35	9.4	204.4	8.73	155.4	0.14
		2025-Jul-17	7.31	12.7	225.6	8.12	174.8	0.26
		2025-Aug-22	6.64	10.8	188.1	8.54	175.4	0.24
		2025-Sep-15	7	9.7	211.5	8.5	186.6	0.53
	SW24-10	2025-Jun-19	7.77	3.6	234.9	13.46	109.8	61.2
		2025-Jul-17	7.4	4.3	224.8	13.25	89.6	61.54
		2025-Aug-22	6.84	3.2	195.3	13.39	83.5	61
		2025-Sep-17	7.04	2.1	130.2	13.33	76.2	58
	TUL-12	2025-Jun-18	8.06	7.6	219.7	11.96	128.4	11.93
		2025-Jul-17	8.25	10.1	205.5	11.45	97.6	10.51
		2025-Aug-22	6.65	9.3	196.6	11.27	100.2	3.46
		2025-Sep-17	7.38	7.3	186.4	11.43	89.9	4.95
	W32/TUL-15	2025-Jun-18	6.39	5	238.5	12.98	104.6	41
		2025-Jul-17	6.94	5.6	233.5	13.15	88.3	60.26
		2025-Aug-22	7.05	2.9	188	13.73	80.1	74
		2025-Sep-15	7.03	2.6	212.2	12.87	78.9	57
TRIBUTARY (ZONE 4)	SW24-5	2025-Jun-20	7.29	5.2	195.9	13.27	38.4	0.78

Notes:

•	samples collected at the same location and date are blind field duplicate/parent pairs
'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
RDL	reported detection limit
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NTU	nephelometric turbidity unit
pH	potential of hydrogen
ns	no standard
BC WQG (Approved) AWF, Long-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Long-term (superceded BC WQG applied to dissolved aluminum only)

Table 2: General Parameters and Carbon in Surface Water

			General Parameters							Carbon
			alkalinity (carbonate)	alkalinity (bicarbonate)	alkalinity (P)	alkalinity (total as CaCO3)	electrical conductivity (lab)	total dissolved solids	total suspended solids	dissolved organic carbon
		Filtered or Total	T	T	T	T	T	T	T	F
		RDL	1	1	1	1	2	1 - 10	1	0.5
			mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L	mg/L
		BC WQG (Approved) AWF, Long-term	ns	ns	ns	ns	ns	ns	bkgd+(5,10,10%)	ns
Zone	Site	Sample Date								
Zone 1	TUL-00/W10	2025-Jun-21	< 1.0	28	< 1.0	23	81	44	29	< 0.50
		2025-Jul-20	< 1.0	29	< 1.0	24	91	45	42	< 0.50
		2025-Aug-24	< 1.0	22	< 1.0	18	71	36	68	< 0.50
		2025-Sep-19	< 1.0	25	< 1.0	21	67	35	54	< 0.50
	SW21-2	2025-Jun-21	< 1.0	21	< 1.0	18	61	30	89	< 0.50
		2025-Jul-18	< 1.0	23	< 1.0	19	52	28	31	< 0.50
		2025-Aug-23	< 1.0	17	< 1.0	14	48	24	220	< 0.50
		2025-Sep-18	< 1.0	25	< 1.0	21	65	34	93	< 0.50
	TUL-03	2025-Jun-23	< 1.0	28	< 1.0	23	81	44	22	< 0.50
		2025-Jul-16	< 1.0	31	< 1.0	25	92	45	41	< 0.50
		2025-Aug-24	< 1.0	26	< 1.0	21	71	38	57	< 0.50
		2025-Sep-19	< 1.0	25	< 1.0	20	68	35	42	< 0.50
	TUL-05	2025-Jun-21	< 1.0	29	< 1.0	23	82	44	26	< 0.50
		2025-Jul-20	< 1.0	30	< 1.0	25	92	45	36	< 0.50
		2025-Aug-24	< 1.0	26	< 1.0	21	71	38	52	< 0.50
		2025-Sep-19	< 1.0	26	< 1.0	22	69	36	21	< 0.50
	TUL-06/SW16-3	2025-Jun-21	< 1.0	28	< 1.0	23	79	41	35	< 0.50
		2025-Jul-18	< 1.0	27	< 1.0	22	81	39	34	< 0.50
		2025-Aug-22	< 1.0	25	< 1.0	20	66	35	53	< 0.50
		2025-Sep-18	< 1.0	27	< 1.0	22	71	37	75	< 0.50
TRIBUTARY (ZONE 1)	SW16-1	2025-Jun-22	< 1.0	39	< 1.0	32	100	55	72	< 0.50
		2025-Jul-19	< 1.0	35	< 1.0	29	100	54	18	< 0.50
		2025-Sep-18	< 1.0	34	< 1.0	28	92	48	48	< 0.50
	W27	2025-Jun-23	< 1.0	40	< 1.0	33	110	57	75	< 0.50
		2025-Jul-19	< 1.0	44	< 1.0	36	140	69	10	< 0.50
		2025-Aug-24	< 1.0	53	< 1.0	43	160	89	12	< 0.50
		2025-Sep-18	< 1.0	53	< 1.0	43	140	75	74	0.70
	SW24-2	2025-Jun-23	< 1.0	51	< 1.0	42	84	44	2.0	< 0.50
		2025-Jul-19	< 1.0	62	< 1.0	51	110	55	< 1.0	< 0.50
		2025-Aug-23	< 1.0	69	< 1.0	57	130	66	< 1.0	0.64
		2025-Sep-18	< 1.0	70	< 1.0	57	130	65	< 1.0	< 0.50

Table 2: General Parameters and Carbon in Surface Water

			General Parameters							Carbon
			alkalinity (carbonate)	alkalinity (bicarbonate)	alkalinity (P)	alkalinity (total as CaCO3)	electrical conductivity (lab)	total dissolved solids	total suspended solids	dissolved organic carbon
		Filtered or Total	T	T	T	T	T	T	T	F
		RDL	1	1	1	1	2	1 - 10	1	0.5
			mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L	mg/L
		BC WQG (Approved) AWF, Long-term	ns	ns	ns	ns	ns	ns	bkgd+(5,10,10%)	ns
Zone	**Site**	**Sample Date**								
Effluent	5200 LEVEL ADIT	2025-Jun-21	< 1.0	< 1.0	< 1.0	< 1.0	1600	920	16	< 0.50
		2025-Jul-18	< 1.0	< 1.0	< 1.0	< 1.0	1700	940	22	< 0.50
		2025-Aug-23	< 1.0	< 1.0	< 1.0	< 1.0	1600	920	23	< 0.50
		2025-Sep-18	< 1.0	< 1.0	< 1.0	< 1.0	1700	930	14	< 0.50
	5400 LEVEL ADIT	2025-Jun-21	< 1.0	< 1.0	< 1.0	< 1.0	520	270	30	< 0.50
		2025-Jul-19	< 1.0	< 1.0	< 1.0	< 1.0	510	260	31	< 0.50
		2025-Aug-23	< 1.0	< 1.0	< 1.0	< 1.0	510	280	30	< 0.50
		2025-Sep-18	< 1.0	< 1.0	< 1.0	< 1.0	500	260	27	< 0.50
	5400 CLEAN WATER PIPE	2025-Jun-21	< 1.0	43	< 1.0	35	440	240	14	< 0.50
	5900 LEVEL ADIT	2025-Jun-20	< 1.0	72	< 1.0	59	300	170	6.4	< 0.50
		2025-Jul-19	< 1.0	67	< 1.0	55	330	190	2.0	< 0.50
		2025-Aug-23	< 1.0	67	< 1.0	55	320	190	8.8	0.51
	SE2	2025-Jun-21	< 1.0	< 1.0	< 1.0	< 1.0	670	340	19	< 0.50
		2025-Jul-18	< 1.0	< 1.0	< 1.0	< 1.0	670	330	24	< 0.50
		2025-Aug-23	< 1.0	< 1.0	< 1.0	< 1.0	730	380	28	< 0.50
		2025-Sep-18	< 1.0	< 1.0	< 1.0	< 1.0	710	370	21	< 0.50
	WTP POND	2025-Jun-21	< 1.0	75	< 1.0	62	520	320	2.4	1.2
		2025-Jul-18	< 1.0	69	< 1.0	57	560	330	2.4	1.3
		2025-Aug-21	< 1.0	70	< 1.0	58	490	310	3.6	1.6
		2025-Sep-18	< 1.0	67	< 1.0	55	480	290	2.0	1.5
	6400 LEVEL ADIT	2025-Aug-23	< 1.0	66	< 1.0	55	130	73	2.8	< 0.50
Zone 2	SW24-1	2025-Jun-19	< 1.0	31	< 1.0	25	82	44	32	< 0.50
		2025-Jul-18	< 1.0	34	< 1.0	28	99	49	14	< 0.50
		2025-Aug-24	< 1.0	27	< 1.0	22	73	39	49	< 0.50
		2025-Sep-17	< 1.0	25	< 1.0	20	68	35	44	< 0.50
	SW24-11	2025-Jun-19	< 1.0	43	< 1.0	35	120	64	74	< 0.50
		2025-Jul-18	< 1.0	32	< 1.0	26	97	48	32	< 0.50
		2025-Aug-22	< 1.0	29	< 1.0	23	82	44	40	< 0.50
		2025-Sep-17	< 1.0	29	< 1.0	24	79	41	33	< 0.50
	W11	2025-Jun-20	< 1.0	26	< 1.0	22	300	160	12	< 0.50
		2025-Jul-18	< 1.0	25	< 1.0	20	220	110	9.2	< 0.50
		2025-Aug-21	< 1.0	2.0	< 1.0	1.6	320	180	11	< 0.50
		2025-Sep-17	< 1.0	7.8	< 1.0	6.4	300	150	6.8	< 0.50
	W44	2025-Jun-19	< 1.0	80	< 1.0	65	190	100	2.0	< 0.50
		2025-Jul-18	< 1.0	80	< 1.0	66	200	100	< 1.0	< 0.50
		2025-Aug-22	< 1.0	81	< 1.0	67	190	110	2.4	< 0.50
		2025-Sep-16	< 1.0	79	< 1.0	65	180	97	< 1.0	< 0.50
	W45	2025-Jun-19	< 1.0	74	< 1.0	60	170	89	< 1.0	< 0.50
		2025-Jul-18	< 1.0	79	< 1.0	65	170	96	1.2	< 0.50
		2025-Aug-22	< 1.0	82	< 1.0	67	180	100	2.0	< 0.50
		2025-Sep-16	< 1.0	80	< 1.0	66	180	93	< 1.0	< 0.50
	W46/SW21-4	2025-Jun-20	< 1.0	41	< 1.0	34	110	61	60	< 0.50
		2025-Jul-18	< 1.0	34	< 1.0	28	90	50	36	< 0.50
		2025-Aug-24	< 1.0	27	< 1.0	22	78	42	48	< 0.50
		2025-Sep-17	< 1.0	30	< 1.0	25	82	42	32	< 0.50

Table 2: General Parameters and Carbon in Surface Water

			General Parameters							Carbon
			alkalinity (carbonate)	alkalinity (bicarbonate)	alkalinity (P)	alkalinity (total as CaCO3)	electrical conductivity (lab)	total dissolved solids	total suspended solids	dissolved organic carbon
		Filtered or Total	T	T	T	T	T	T	T	F
		RDL	1	1	1	1	2	1 - 10	1	0.5
			mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L	mg/L
		BC WQG (Approved) AWF, Long-term	ns	ns	ns	ns	ns	ns	bkgd+(5,10,10%)	ns
Zone	**Site**	**Sample Date**								
TRIBUTARY (ZONE 2)	CC-01	2025-Jun-20	< 1.0	51	< 1.0	42	91	47	1.2	0.55
	CC-02	2025-Jun-20	< 1.0	51	< 1.0	42	88	47	1.2	0.61
		2025-Jul-19	< 1.0	64	< 1.0	52	120	61	< 1.0	0.50
		2025-Aug-23	< 1.0	64	< 1.0	52	130	67	1.6	0.65
		2025-Sep-18	< 1.0	68	< 1.0	56	130	68	< 1.0	< 0.50
	CC-04	2025-Jun-20	< 1.0	41	< 1.0	34	70	36	10	0.52
		2025-Jul-19	< 1.0	56	< 1.0	46	110	56	< 1.0	< 0.50
		2025-Aug-23	< 1.0	62	< 1.0	51	130	70	< 1.0	< 0.50
Zone 3	SW16-8	2025-Jun-19	< 1.0	60	< 1.0	49	110	55	1.2	0.85
		2025-Jul-17	< 1.0	61	< 1.0	50	120	62	< 1.0	0.77
		2025-Aug-21	< 1.0	72	< 1.0	59	140	72	2.8	0.90
		2025-Sep-16	< 1.0	92	< 1.0	75	170	88	1.2	< 0.50
	SW24-4	2025-Jun-19	< 1.0	48	< 1.0	40	130	70	10	< 0.50
		2025-Jul-18	< 1.0	59	< 1.0	49	180	91	< 1.0	< 0.50
		2025-Aug-21	< 1.0	48	< 1.0	39	130	68	2.0	< 0.50
		2025-Sep-17	< 1.0	42	< 1.0	34	110	55	1.2	< 0.50
	TUL-09	2025-Jun-19	< 1.0	39	< 1.0	32	110	59	67	< 0.50
		2025-Jul-18	< 1.0	31	< 1.0	26	94	46	34	< 0.50
		2025-Aug-22	< 1.0	28	< 1.0	23	80	43	44	< 0.50
		2025-Sep-15	< 1.0	30	< 1.0	25	80	41	45	< 0.50
TRIBUTARY (ZONE 3)	SW21-5	2025-Jun-19	< 1.0	41	< 1.0	33	78	40	18	< 0.50
		2025-Jul-17	< 1.0	37	< 1.0	31	66	36	5.2	< 0.50
		2025-Aug-21	< 1.0	41	< 1.0	34	85	43	4.0	< 0.50
		2025-Sep-17	< 1.0	40	< 1.0	33	78	40	2.8	< 0.50
Zone 4	SW24-6	2025-Jun-18	< 1.0	36	< 1.0	30	98	52	16	< 0.50
		2025-Jul-17	< 1.0	32	< 1.0	26	97	47	32	< 0.50
		2025-Aug-22	< 1.0	29	< 1.0	24	83	44	43	< 0.50
		2025-Sep-15	< 1.0	31	< 1.0	25	84	43	26	< 0.50
	SW24-7	2025-Jun-18	< 1.0	36	< 1.0	29	100	54	27	< 0.50
		2025-Jul-17	< 1.0	33	< 1.0	27	98	48	32	< 0.50
		2025-Aug-22	< 1.0	31	< 1.0	25	83	45	44	< 0.50
		2025-Sep-15	< 1.0	31	< 1.0	26	83	42	29	< 0.50
	SW24-8	2025-Jun-18	< 1.0	67	< 1.0	55	150	78	< 1.0	< 0.50
		2025-Jul-17	< 1.0	75	< 1.0	61	190	93	< 1.0	< 0.50
		2025-Aug-22	< 1.0	79	< 1.0	65	180	95	< 1.0	< 0.50
		2025-Sep-15	< 1.0	81	< 1.0	67	190	100	< 1.0	< 0.50
	SW24-10	2025-Jun-19	< 1.0	41	< 1.0	33	110	60	64	< 0.50
		2025-Jul-17	< 1.0	31	< 1.0	26	98	48	34	< 0.50
		2025-Aug-22	< 1.0	31	< 1.0	25	86	47	42	< 0.50
		2025-Sep-17	< 1.0	30	< 1.0	24	81	41	36	< 0.50
	TUL-12	2025-Jun-18	< 1.0	52	< 1.0	42	120	63	9.2	< 0.50
		2025-Jul-17	< 1.0	42	< 1.0	35	110	51	3.6	< 0.50
		2025-Aug-22	< 1.0	44	< 1.0	36	100	55	1.6	< 0.50
		2025-Sep-17	< 1.0	44	< 1.0	36	96	48	< 1.0	< 0.50
	W32/TUL-15	2025-Jun-18	< 1.0	35	< 1.0	28	100	53	24	< 0.50
		2025-Jul-17	< 1.0	34	< 1.0	28	98	48	32	< 0.50
		2025-Aug-22	< 1.0	31	< 1.0	26	82	45	44	< 0.50
		2025-Sep-15	< 1.0	31	< 1.0	25	82	42	29	< 0.50

Table 2: General Parameters and Carbon in Surface Water

			General Parameters							Carbon
			alkalinity (carbonate)	alkalinity (bicarbonate)	alkalinity (P)	alkalinity (total as CaCO3)	electrical conductivity (lab)	total dissolved solids	total suspended solids	dissolved organic carbon
		Filtered or Total	T	T	T	T	T	T	T	F
		RDL	1	1	1	1	2	1 - 10	1	0.5
			mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L	mg/L
		BC WQG (Approved) AWF, Long-term	ns	ns	ns	ns	ns	ns	bkgd+(5,10,10%)	ns
Zone	Site	Sample Date								
TRIBUTARY (ZONE 4)	SW24-5	2025-Jun-20	< 1.0	25	< 1.0	20	39	20	1.6	< 0.50

Notes:

•	samples collected at the same location and date are blind field duplicate/parent pairs
'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
RDL	reported detection limit
µS/cm	microsiemens per centimetre
mg/L	milligram per litre
ns	no standard
BC WQG (Approved) AWF, Long-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Long-term (superceded BC WQG applied to dissolved aluminum only)
BC WQG (Working) AWF, Long-term	BC Working Water Quality Guidelines, Freshwater Aquatic Life, Long-term

Table 3: Metals in Surface Water

			Metals																									
			aluminum (Screened against superseded BC WQG)	aluminum (dissolved)	aluminum	aluminum (total)	antimony	antimony	arsenic	arsenic	barium	barium	beryllium	beryllium	bismuth	bismuth	boron	boron	cadmium	cadmium (dissolved)	cadmium	calcium	calcium	chromium (III+VI)	chromium (III+VI)
		Filtered or Total	T		T		F	T	F	T	F	T	F	T	F	T	F	T	F		T	F	T	F	T
		RDL	0.5 - 10		0.5 - 60		0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 1	0.01 - 0.2	0.01 - 0.2	0.005 - 0.1	0.005 - 0.2	10 - 200	10 - 200	0.005 - 0.1		0.005 - 0.1	0.05 - 1	0.05 - 5	0.1 - 2	0.1 - 2
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		µg/L	mg/L	mg/L	µg/L	µg/L
		BC WQG (Approved) AWF, Long-term	5.1 - 50	5.1 - 50	14 - 200		ns	74	ns	5.0	ns	ns	ns	ns	ns	ns	ns	1200	0.063 - 0.46		ns	ns	ns	ns	ns
		BC WQG (Approved) AWF, Short-term	not screened																						
		BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	1000	ns	0.13	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.5
		CCME WQG AWF, Long-term	not screened																						
Zone	Site	Sample Date			1715																				
Zone 1	TUL-00/W10	2025-Jun-21	50.2	50	1270	58	0.105	0.112	0.449	1.18	15.5	40.3	< 0.010	0.033	< 0.0050	0.045	< 10	< 10	0.0067	0.1	0.0414	11.6	11.4	< 0.10	1.93
		2025-Jul-20	51.2	50	1130	18	0.110	0.121	0.529	1.35	17.9	48.7	< 0.010	0.032	< 0.0050	0.080	< 10	< 10	0.0080	0.11	0.0530	11.9	12.5	< 0.10	1.52
		2025-Aug-24	59.4	50	5650	57	0.092	0.221	0.346	2.77	15.8	117	< 0.010	0.151	< 0.0050	0.100	< 10	< 20	0.0093	0.1	0.076	10.6	9.93	< 0.10	8.65
		2025-Sep-19	47.9	50	2030	53	0.085	0.134	0.389	1.72	14.8	58.6	< 0.010	0.056	< 0.0050	0.083	< 10	< 10	0.0058	0.096	0.0588	9.31	10.3	< 0.10	2.84
	SW21-2	2025-Jun-21	9.52	50	339	23	0.029	0.031	0.069	0.183	27.9	39.6	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0116	0.08	0.0278	8.16	8.09	< 0.10	1.23
		2025-Jul-18	8.84	50	385	13	0.038	0.028	0.078	0.196	27.4	36.7	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0093	0.074	0.0227	7.04	6.82	< 0.10	1.53
		2025-Aug-23	12.4	50	1980	39	0.024	0.059	0.037	0.557	29.5	81.6	< 0.010	0.047	< 0.0050	0.017	< 10	< 10	0.0121	0.076	0.0487	6.51	6.05	< 0.10	7.86
		2025-Sep-18	8.45	50	948	20	0.034	0.056	0.124	0.457	35.2	74.5	< 0.010	0.032	< 0.0050	0.018	< 10	< 10	0.0157	0.091	0.0530	8.52	9.28	< 0.10	3.35
	TUL-03	2025-Jun-23	40.3	50	897	31	0.106	0.113	0.427	0.935	15.9	34.9	< 0.010	0.027	< 0.0050	0.034	< 10	< 10	0.0080	0.096	0.0354	11.4	11.0	< 0.10	1.42
		2025-Jul-16	44.4	50	1410	26	0.138	0.147	0.484	1.28	18.5	48.2	< 0.010	0.027	< 0.0050	0.061	< 10	< 10	0.0096	0.11	0.0450	11.9	12.5	< 0.10	1.93
		2025-Aug-24	49.1	50	4730	54	0.087	0.188	0.307	2.27	16.2	101	< 0.010	0.121	< 0.0050	0.092	< 10	< 10	0.0076	0.1	0.0663	10.7	9.77	< 0.10	7.44
		2025-Sep-19	40.0	50	1200	30	0.081	0.113	0.360	1.15	15.1	43.7	< 0.010	0.038	< 0.0050	0.050	< 10	< 10	0.0068	0.091	0.0397	9.38	10.1	< 0.10	1.63
	TUL-05	2025-Jun-21	45.8	50	971	34	0.113	0.116	0.422	1.01	15.8	36.1	< 0.010	0.02	< 0.0050	0.042	< 10	< 10	0.0103	0.1	0.0400	11.4	11.7	< 0.10	1.53
		2025-Jul-20	49.6	50	1200	18	0.101	0.107	0.521	1.09	18.0	42	< 0.010	0.026	< 0.0050	0.052	< 10	< 10	0.0081	0.096	0.0353	11.6	10.7	< 0.10	1.54
		2025-Aug-24	52.2	50	4490	53	0.102	0.188	0.284	2.16	16.8	98.9	< 0.010	0.111	< 0.0050	0.085	< 10	< 10	0.0105	0.1	0.0571	10.9	10.0	< 0.10	6.49
		2025-Sep-19	38.7	50	1100	27	0.086	0.108	0.385	1.14	15.4	44.1	< 0.010	0.026	< 0.0050	0.050	< 10	< 10	0.0063	0.092	0.0404	9.51	10.2	< 0.10	1.48
	TUL-06/SW16-3	2025-Jun-21	25.3	50	553	34	0.078	0.072	0.288	0.564	22.1	35.7	< 0.010	0.01	< 0.0050	0.019	< 10	< 10	0.0119	0.094	0.0311	10.9	10.5	< 0.10	1.18
		2025-Jul-18	26.9	50	582	31	0.070	0.074	0.304	0.592	23.4	38.8	< 0.010	0.019	< 0.0050	0.024	< 10	< 10	0.0108	0.096	0.0263	10.1	10.5	< 0.10	1.15
		2025-Aug-22	24.8	27.6	2680	8.5	0.054	0.094	0.186	1.05	25.2	78.5	< 0.010	0.078	< 0.0050	0.043	< 10	< 10	0.0128	0.09	0.0433	9.55	8.48	< 0.10	6.4
		2025-Sep-18	16.7	50	1680	15	0.059	0.093	0.226	0.961	30.0	83.7	< 0.010	0.054	< 0.0050	0.045	< 10	< 10	0.0108	0.1	0.0735	9.50	10.2	< 0.10	4.73
TRIBUTARY (ZONE 1)	SW16-1	2025-Jun-22	27.7	50	1370	32	0.212	0.392	0.465	5.30	17.3	42.7	< 0.010	0.044	< 0.0050	0.032	< 10	< 10	0.0142	0.12	0.120	15.6	15.7	< 0.10	3.29
		2025-Jul-19	32.3	50	886	25	0.188	0.195	0.635	1.22	18.6	36.3	< 0.010	0.018	< 0.0050	0.032	< 10	< 10	0.0124	0.12	0.0343	14.7	14.5	< 0.10	1.33
		2025-Sep-18	32.3	50	997	35	0.179	0.241	0.669	2.34	17.7	42.8	< 0.010	0.036	< 0.0050	0.043	< 10	< 10	0.0123	0.12	0.0735	13.7	14.7	< 0.10	1.62
	W27	2025-Jun-23	26.0	50	1200	17	0.272	0.499	0.521	5.29	12.9	34.7	< 0.010	0.056	< 0.0050	0.020	< 10	< 10	0.0144	0.13	0.121	17.0	17.4	< 0.10	3.5
		2025-Jul-19	10.7	50	167	35	0.323	0.336	0.867	1.35	14.4	15.5	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0194	0.14	0.0243	19.4	19.4	< 0.10	0.39
		2025-Aug-24	10.6	50	383	45	0.412	0.395	0.811	1.78	18.8	20.5	< 0.010	0.015	< 0.0050	< 0.010	< 10	< 10	0.0206	0.14	0.0317	27.2	20.1	< 0.10	1.08
		2025-Sep-18	31.2	50	2040	90	0.396	0.766	1.06	8.94	16.8	57.1	< 0.010	0.077	< 0.0050	0.034	< 10	< 10	0.0185	0.17	0.187	22.4	24.9	< 0.10	5.49
	SW24-2	2025-Jun-23	12.5	50	69.1	31	0.475	0.492	1.01	1.20	4.48	5	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	< 0.0050	0.11	< 0.0050	15.6	16.6	< 0.10	0.28
		2025-Jul-19	12.4	50	19.3	33	0.702	0.706	1.38	1.40	6.89	6.91	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	< 0.0050	0.13	< 0.0050	19.8	20.1	< 0.10	< 0.10
		2025-Aug-23	12.7	50	15.2	100	0.967	0.822	1.75	1.59	9.50	8	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0051	0.13	< 0.0050	25.4	20.9	< 0.10	< 0.10
		2025-Sep-18	11.8	50	12.9	51	0.992	0.811	1.96	1.70	9.32	7.78	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	< 0.0050	0.13	< 0.0050	22.8	20.4	< 0.10	< 0.10
Effluent	5200 LEVEL ADIT	2025-Jun-21	27700	10.8	27400	30	0.40	2.02	9.43	77.1	16.2	17.5	0.73	0.54	< 0.10	< 0.20	< 200	< 200	394	0.46	377	136	126	5.5	5.2
		2025-Jul-18	22800	10.1	27800	27	< 0.40	2.24	2.25	96.4	13.3	16.7	0.66	0.45	< 0.10	< 0.20	< 200	< 200	341	0.46	426	116	139	4.5	5.5
		2025-Aug-23	25500	8.5	16700	30	< 0.40	2.09	3.83	64.4	17.3	13.9	0.52	0.38	< 0.10	< 0.20	< 200	< 200	370	0.46	336	138	113	4.4	4.1
		2025-Sep-18	23900	7.9	23600	30	< 0.40	1.96	3.52	66.5	17.5	17.3	0.47	0.78	< 0.10	< 0.20	< 200	< 200	403	0.46	424	136	141	4.7	4.5
	5400 LEVEL ADIT	2025-Jun-21	3860	5.8	3890	16	0.21	4.18	0.28	135	34.3	37.3	0.20	0.13	< 0.050	< 0.10	< 100	< 100	176	0.25	164	46.1	43.0	< 1.0	< 1.0
		2025-Jul-19	2380	9.9	2980	16	0.56	5.20	0.77	94.0	30.7	33.9	< 0.10	0.155	< 0.050	< 0.050	< 100	< 50	137	0.26	139	44.5	46.2	< 1.0	< 0.50
		2025-Aug-23	3510	5.1	2780	17	0.45	8.27	0.22	139	30.0	46.7	0.153	0.169	< 0.025	< 0.050	< 50	< 50	145	0.25	140	50.7	44.4	< 0.50	0.67
		2025-Sep-18	2410	5.9	3330	17	0.79	9.46	0.48	159	29.6	29.5	0.167	0.171	< 0.025	< 0.050	< 50	< 50	146	0.27	145	50.0	48.8	< 0.50	0.58
	5400 CLEAN WATER PIPE	2025-Jun-21	28.4	46.9	1430	23	13.7	19.4	0.626	64.5	22.4	24.3	< 0.020	0.05	< 0.010	< 0.020	24	26	46.4	0.29	47.5	58.1	58.6	< 0.20	0.29
	5900 LEVEL ADIT	2025-Jun-20	35.8	50	2800	42	1.69	2.25	0.115	11.8	29.0	44.8	< 0.010	0.151	< 0.0050	< 0.010	< 10	< 10	4.58	0.26	7.60	52.2	48.2	< 0.10	0.51
		2025-Jul-19	57.0	50	360	28	1.65	1.63	0.135	1.20	29.7	28	< 0.010	0.011	< 0.0050	< 0.010	< 10	< 10	4.79	0.28	5.01	52.3	53.5	< 0.10	0.27
		2025-Aug-23	38.6	50	369	66	1.68	1.58	0.139	1.69	30.3	31.4	< 0.010	0.021	< 0.0050	< 0.010	< 10	< 10	4.70	0.26	5.01	55.8	47.4	< 0.10	< 0.10
	SE2	2025-Jun-21	6740	6.9	6640	19	0.26	2.36	0.31	52.1	27.8	28.3	0.24	0.254	< 0.050	< 0.050	< 100	< 50	154	0.3	146	58.7	54.1	< 1.0	1.03
		2025-Jul-18	5690	6.6	5470	18	0.28	2.67	0.26	42.4	25.1	33.5	0.21	0.19	< 0.050	< 0.050	< 100	< 50	144	0.31	145	54.2	58.8	< 1.0	1.06
		2025-Aug-23	7530	6.3	5070	19	0.33	4.53	< 0.20	81.6	25.4	26.7	0.28	0.189	< 0.050	< 0.050	< 100	< 50	163	0.29	151	63.9	54.9	< 1.0	1.25
		2025-Sep-18	6740	5.8	6440	19	0.29	3.64	0.73	62.1	25.1	26.6	0.214	0.22	< 0.025	< 0.10	< 50	< 100	161	0.33	163	63.6	61.9	0.59	< 1.0
	WTP POND	2025-Jun-21	16.7	50	28.2	110	8.23	7.24	0.398	0.676	22.1	19.5	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	10.6	0.38	9.57	90.8	78.7	< 0.10	0.14
		2025-Jul-18	16.7	50	41.8	140	7.87	7.81	0.391	0.742	22.0	21.5	< 0.010	0.011	< 0.0050	< 0.0050	< 10	< 10	7.17	0.41	8.36	90.5	89.7	< 0.10	< 0.10
		2025-Aug-21	11.7	50	28.3	200	10.3	8.54	0.554	0.714	23.2	17.9	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	5.92	0.35	5.88	91.4	72.3	< 0.10	0.11
		2025-Sep-18	8.95	50	33.9	170	8.73	7.67	0.535	0.743	20.1	17.7	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	5.36	0.35	5.32	79.6	70.9	< 0.10	< 0.10
	6400 LEVEL ADIT	2025-Aug-23	41.1	50	69	48	0.704	0.675	0.615	3.00	14.4	13.2	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.892	0.15	1.12	25.9	24.1	< 0.10	0.14

Table 3: Metals in Surface Water

			Metals																								
			aluminum (Screened against superseded BC WQG)	aluminum (dissolved) BC WQG FW (chronic) superseded	aluminum	aluminum (total) BC WQG FW (chronic)	antimony	antimony	arsenic	arsenic	barium	barium	beryllium	beryllium	bismuth	bismuth	boron	boron	cadmium	cadmium (dissolved) BC WQG FW (chronic)	cadmium	calcium	calcium	chromium (III+VI)	chromium (III+VI)
		Filtered or Total	T		T		F	T	F	T	F	T	F	T	F	T	F	T	F		T	F	T	F	T
		RDL	0.5 - 10		0.5 - 60		0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 1	0.01 - 0.2	0.01 - 0.2	0.005 - 0.1	0.005 - 0.2	10 - 200	10 - 200	0.005 - 0.1		0.005 - 0.1	0.05 - 1	0.05 - 5	0.1 - 2	0.1 - 2
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L
		BC WQG (Approved) AWF, Long-term	5.1 - 50	5.1 - 50	14 - 200		ns	74	ns	5.0	ns	ns	ns	ns	ns	ns	ns	1200	0.063 - 0.46		ns	ns	ns	ns	ns
		BC WQG (Approved) AWF, Short-term	not screened																						
		BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	1000	ns	0.13	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.5
		CCME WQG AWF, Long-term	not screened																						
Zone	Site	Sample Date			1715																				
Zone 2	SW24-1	2025-Jun-19	25.7	50	324	19	0.075	0.075	0.298	0.415	22.5	29	< 0.010	0.015	< 0.0050	0.012	< 10	< 10	0.0089	0.091	0.0200	11.4	10.2	< 0.10	0.89
		2025-Jul-18	41.5	50	1030	28	0.126	0.131	0.499	1.03	20.7	39.7	< 0.010	0.02	< 0.0050	0.037	< 10	< 10	0.0056	0.11	0.0261	13.2	14.0	< 0.10	1.69
		2025-Aug-24	48.3	50	2610	49	0.097	0.139	0.330	1.67	17.3	68.9	< 0.010	0.087	< 0.0050	0.075	< 10	< 10	0.0100	0.096	0.0507	11.1	10.1	< 0.10	4.27
		2025-Sep-17	39.0	50	2010	28	0.087	0.165	0.454	1.65	15.4	57.3	< 0.010	0.057	< 0.0050	0.070	< 10	< 10	0.0055	0.096	0.0505	9.31	10.2	< 0.10	3.12
	SW24-11	2025-Jun-19	27.2	50	284	47	0.268	0.290	0.581	1.78	16.9	23.8	< 0.010	0.018	< 0.0050	< 0.010	< 10	< 10	0.0176	0.13	0.0505	17.8	17.0	< 0.10	0.56
		2025-Jul-18	42.9	50	1010	30	0.144	0.145	0.641	1.27	18.2	41.2	< 0.010	0.028	< 0.0050	0.054	< 10	< 10	0.0102	0.11	0.0399	13.1	13.7	< 0.10	1.44
		2025-Aug-22	39.9	50	2110	13	0.137	0.176	0.370	1.66	17.4	59.9	< 0.010	0.057	< 0.0050	0.074	< 10	< 10	0.0089	0.1	0.0556	13.0	11.6	< 0.10	3.6
		2025-Sep-17	37.3	50	1010	27	0.133	0.161	0.576	1.31	15.7	41.7	< 0.010	0.033	< 0.0050	0.045	< 10	< 10	0.0092	0.1	0.0464	11.1	11.4	< 0.10	1.54
	W11	2025-Jun-20	14.0	32.6	2200	18	0.413	0.682	0.043	6.12	31.3	32	0.027	0.074	< 0.010	< 0.010	< 20	< 20	42.1	0.23	41.9	40.0	38.9	< 0.20	0.34
		2025-Jul-18	18.1	40.4	1110	16	0.374	0.611	0.051	6.43	25.1	24.6	< 0.010	0.042	< 0.0050	< 0.010	< 10	< 10	22.4	0.17	21.8	26.9	26.4	< 0.10	0.43
		2025-Aug-21	183	7.1	2150	15	0.315	0.986	< 0.040	15.6	29.5	30.5	0.056	0.118	< 0.010	< 0.020	< 20	< 20	58.1	0.22	57.4	39.6	37.0	< 0.20	0.74
		2025-Sep-17	15.2	17.7	1280	14	0.356	0.450	0.078	2.71	30.4	28.1	< 0.020	0.063	< 0.010	< 0.020	< 20	< 20	51.2	0.21	47.1	37.3	32.8	< 0.20	< 0.20
	W44	2025-Jun-19	2.28	50	4.89	35	0.129	0.132	0.422	0.420	50.9	53.3	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	< 0.0050	0.19	< 0.0050	28.7	29.9	0.13	0.14
		2025-Jul-18	2.58	44.3	4.04	18	0.134	0.125	0.360	0.381	52.7	53.6	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.0088	0.19	0.0099	29.1	28.7	0.15	0.16
		2025-Aug-22	2.21	50	3.3	22	0.145	0.130	0.240	0.237	61.2	52	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0072	0.18	0.0059	32.3	27.5	0.12	0.12
		2025-Sep-16	2.16	31.0	5.7	15	0.144	0.164	0.326	0.394	53.7	61.8	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0093	0.2	0.0116	28.1	31.6	0.10	0.14
	W45	2025-Jun-19	2.01	50	3.62	19	0.123	0.118	0.242	0.241	47.9	50.5	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.0067	0.18	0.0089	25.7	26.5	< 0.10	< 0.10
		2025-Jul-18	2.60	50	3.72	20	0.134	0.116	0.244	0.256	54.9	55.3	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.0068	0.18	0.0085	28.5	28.0	< 0.10	0.1
		2025-Aug-22	2.25	28.5	< 3.0	15	0.136	0.116	0.241	0.248	62.0	52.9	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0080	0.18	0.0089	31.3	27.2	< 0.10	< 0.10
		2025-Sep-16	1.63	34.4	3.8	15	0.122	0.141	0.319	0.368	51.6	57.5	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	< 0.0050	0.19	0.0108	26.4	28.8	< 0.10	< 0.10
	W46/SW21-4	2025-Jun-20	27.7	50	612	39	0.238	0.313	0.534	3.05	17.4	31.4	< 0.010	0.045	< 0.0050	0.019	< 10	< 10	0.0157	0.12	0.0894	17.2	16.4	< 0.10	1.55
		2025-Jul-18	48.2	50	917	35	0.153	0.163	0.652	1.13	18.5	38.6	< 0.010	0.023	< 0.0050	0.044	< 10	< 10	0.0112	0.11	0.0382	13.1	13.7	< 0.10	1.56
		2025-Aug-24	46.1	50	3390	47	0.131	0.201	0.388	2.01	17.5	80.5	< 0.010	0.092	< 0.0050	0.079	< 10	< 10	0.0073	0.11	0.0585	12.2	11.7	< 0.10	4.86
		2025-Sep-17	39.4	50	1530	35	0.149	0.200	0.603	1.94	16.4	50.2	< 0.010	0.05	< 0.0050	0.054	< 10	< 10	0.0084	0.11	0.0574	11.8	13.2	< 0.10	2.28
TRIBUTARY (ZONE 2)	CC-01	2025-Jun-20	25.0	50	32.1	69	0.508	0.504	1.10	1.14	10.5	10.8	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.252	0.12	0.269	16.6	17.1	< 0.10	0.11
	CC-02	2025-Jun-20	25.6	50	40.9	84	0.461	0.455	1.05	1.15	9.47	9.85	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.220	0.11	0.235	16.3	16.8	< 0.10	< 0.10
		2025-Jul-19	19.9	50	25.8	36	0.649	0.654	1.35	1.45	11.8	12	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.291	0.14	0.297	20.7	21.5	< 0.10	0.12
		2025-Aug-23	21.2	50	21.3	92	0.841	0.776	1.44	1.45	14.7	13.2	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.362	0.14	0.382	24.4	23.0	< 0.10	0.13
		2025-Sep-18	21.6	50	25.8	21	0.853	0.771	1.63	1.73	14.1	13.8	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.403	0.14	0.396	23.4	22.2	0.10	0.11
	CC-04	2025-Jun-20	19.2	50	31.6	75	0.172	0.155	0.614	0.657	5.27	5.16	< 0.010	0.042	< 0.0050	< 0.010	< 10	< 10	< 0.0050	0.086	0.0130	13.2	11.9	< 0.10	0.11
		2025-Jul-19	10.7	50	65.6	27	0.334	0.363	0.951	1.20	8.29	22.3	0.011	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0051	0.14	0.0075	20.0	21.2	0.11	0.18
		2025-Aug-23	12.8	50	11.3	54	0.562	0.456	1.21	1.07	9.08	7.39	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	< 0.0050	0.14	< 0.0050	26.6	21.7	< 0.10	0.11
Zone 3	SW16-8	2025-Jun-19	13.9	50	314	48	0.361	0.375	0.670	0.914	21.2	26.7	< 0.010	< 0.010	< 0.0050	0.0056	< 10	< 10	0.0782	0.13	0.118	17.8	18.7	< 0.10	0.67
		2025-Jul-17	9.27	50	160	56	0.431	0.417	0.621	0.726	34.2	36	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.135	0.14	0.163	22.0	21.2	< 0.10	0.48
		2025-Aug-21	9.44	50	93.3	44	0.451	0.413	0.625	0.766	36.5	33	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.148	0.15	0.167	25.7	22.8	< 0.10	0.28
		2025-Sep-16	5.82	39.0	19.9	16	0.397	0.447	0.713	0.862	36.8	40.6	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.120	0.19	0.141	30.1	31.2	0.11	0.16
	SW24-4	2025-Jun-19	20.4	50	210	22	0.335	0.369	0.709	1.49	25.0	28.9	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0209	0.14	0.0406	20.1	19.4	< 0.10	0.48
		2025-Jul-18	19.7	50	33.7	22	0.329	0.308	0.623	0.695	37.4	37.2	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.182	0.17	0.192	26.8	26.2	< 0.10	0.13
		2025-Aug-21	27.9	50	170	45	0.268	0.227	0.511	0.697	26.9	25.5	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.816	0.12	0.777	18.5	15.7	< 0.10	0.39
		2025-Sep-17	21.2	50	149	25	0.235	0.306	0.723	0.986	23.3	28.3	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0417	0.13	0.0559	14.5	17.1	< 0.10	0.24
	TUL-09	2025-Jun-19	28.1	50	812	38	0.222	0.339	0.635	3.75	17.4	36.4	< 0.010	0.035	< 0.0050	0.028	< 10	< 10	0.0144	0.13	0.0933	16.6	17.6	< 0.10	1.87
		2025-Jul-18	42.6	50	1450	29	0.119	0.149	0.537	1.32	19.4	47.9	< 0.010	0.036	< 0.0050	0.061	< 10	< 10	0.0098	0.11	0.0416	12.6	12.9	< 0.10	2.21
		2025-Aug-22	39.0	50	3270	14	0.122	0.195	0.326	1.85	18.7	81.2	< 0.010	0.096	< 0.0050	0.075	< 10	< 10	0.0084	0.11	0.0522	12.4	11.9	< 0.10	5.19
		2025-Sep-15	38.4	50	1710	44	0.129	0.155	0.539	1.67	17.0	49.2	< 0.010	0.054	< 0.0050	0.063	< 10	< 10	0.0090	0.1	0.0501	10.7	11.1	< 0.10	2.57
TRIBUTARY (ZONE 3)	SW21-5	2025-Jun-19	19.4	50	334	26	0.232	0.231	1.21	1.68	10.3	15	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	< 0.0050	0.11	0.0056	13.2	13.7	0.10	0.67
		2025-Jul-17	20.2	50	173	53	0.218	0.206	1.58	1.70	9.20	11.2	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0063	0.094	< 0.0050	11.7	11.7	0.10	0.4
		2025-Aug-21	22.7	50	119	23	0.263	0.242	1.75	1.68	11.3	11.1	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	< 0.0050	0.1	< 0.0050	15.3	13.5	< 0.10	0.32
		2025-Sep-17	19.0	50	128	33	0.214	0.265	1.48	1.85	9.87	12	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	< 0.0050	0.1	< 0.0050	12.4	13.7	< 0.10	0.3

Table 3: Metals in Surface Water

			Metals																								
			aluminum (Screened against superseded BC WQG)	aluminum (dissolved)	aluminum	aluminum (total)	antimony	antimony	arsenic	arsenic	barium	barium	beryllium	beryllium	bismuth	bismuth	boron	boron	cadmium	cadmium (dissolved)	cadmium	calcium	calcium	chromium (III+VI)	chromium (III+VI)
		Filtered or Total	T		T		F	T	F	T	F	T	F	T	F	T	F	T	F		T	F	T	F	T
		RDL	0.5 - 10		0.5 - 60		0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 1	0.01 - 0.2	0.01 - 0.2	0.005 - 0.1	0.005 - 0.2	10 - 200	10 - 200	0.005 - 0.1		0.005 - 0.1	0.05 - 1	0.05 - 5	0.1 - 2	0.1 - 2
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L
		BC WQG (Approved) AWF, Long-term	5.1 - 50	5.1 - 50	14 - 200		ns	74	ns	5.0	ns	ns	ns	ns	ns	ns	ns	1200	0.063 - 0.46		ns	ns	ns	ns	ns
		BC WQG (Approved) AWF, Short-term	not screened																						
		BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	1000	ns	0.13	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.5
		CCME WQG AWF, Long-term	not screened																						
Zone	Site	Sample Date			1715																				
Zone 4	SW24-6	2025-Jun-18	35.9	50	570	50	0.107	0.105	0.453	0.753	22.2	33.9	< 0.010	0.016	< 0.0050	0.024	< 10	< 10	0.0082	0.11	0.0237	13.9	13.3	< 0.10	0.96
		2025-Jul-17	42.8	50	1190	34	0.133	0.134	0.566	1.24	19.7	44.9	< 0.010	0.024	< 0.0050	0.057	< 10	< 10	0.0099	0.11	0.0406	12.8	13.6	< 0.10	1.77
		2025-Aug-22	37.7	50	2960	29	0.119	0.190	0.388	1.73	20.1	76.8	< 0.010	0.076	< 0.0050	0.068	< 10	< 10	0.0151	0.11	0.0556	12.8	11.8	< 0.10	4.43
		2025-Sep-15	31.9	50	1960	27	0.107	0.151	0.505	1.61	19.5	53.5	< 0.010	0.051	< 0.0050	0.053	< 10	< 10	0.0083	0.1	0.0448	11.5	11.2	< 0.10	3.02
	SW24-7	2025-Jun-18	32.9	50	519	33	0.246	0.271	0.578	1.35	17.4	29.3	< 0.010	< 0.010	< 0.0050	0.020	< 10	< 10	0.0122	0.11	0.0464	14.6	14.6	< 0.10	0.94
		2025-Jul-17	46.2	50	1290	38	0.175	0.158	0.657	1.34	19.0	44.3	< 0.010	0.027	< 0.0050	0.054	< 10	< 10	0.0142	0.11	0.0467	12.8	13.9	< 0.10	1.94
		2025-Aug-22	43.2	50	3120	25	0.137	0.182	0.385	1.85	18.2	77.2	< 0.010	0.094	< 0.0050	0.078	< 10	< 10	0.0119	0.11	0.0552	12.7	12.4	< 0.10	4.61
		2025-Sep-15	37.5	50	1180	34	0.128	0.153	0.589	1.33	18.1	43.4	< 0.010	0.033	< 0.0050	0.050	< 10	< 10	0.0082	0.098	0.0403	11.2	11.2	< 0.10	1.69
	SW24-8	2025-Jun-18	2.13	50	10.8	32	0.130	0.123	0.246	0.249	46.6	47.4	< 0.010	0.015	< 0.0050	< 0.0050	< 10	< 10	0.0084	0.15	0.0184	21.5	21.2	< 0.10	< 0.10
		2025-Jul-17	3.65	50	14.4	32	0.143	0.139	0.240	0.270	55.6	56.3	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	0.0125	0.18	0.0179	26.2	26.2	< 0.10	0.14
		2025-Aug-22	3.14	50	13.7	20	0.134	0.120	0.265	0.211	59.8	51.9	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0117	0.16	0.0095	26.7	23.6	< 0.10	0.11
		2025-Sep-15	1.72	50	6.5	26	0.132	0.125	0.229	0.228	63.0	52.9	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0119	0.16	0.0111	26.9	23.9	< 0.10	< 0.10
	SW24-10	2025-Jun-19	30.0	50	755	45	0.219	0.336	0.621	3.49	18.0	36.9	< 0.010	0.032	< 0.0050	0.028	< 10	< 10	0.0148	0.13	0.0967	16.7	17.4	< 0.10	1.57
		2025-Jul-17	43.2	50	1250	31	0.147	0.156	0.651	1.38	18.7	44.8	< 0.010	0.034	< 0.0050	0.060	< 10	< 10	0.0129	0.11	0.0458	13.1	12.7	< 0.10	1.76
		2025-Aug-22	44.1	50	2770	18	0.140	0.191	0.390	1.77	18.7	71.5	< 0.010	0.072	< 0.0050	0.062	< 10	< 10	0.0112	0.11	0.0537	13.7	12.2	< 0.10	4.73
		2025-Sep-17	36.1	50	1900	21	0.126	0.176	0.590	1.73	17.2	51	< 0.010	0.06	< 0.0050	0.056	< 10	< 10	0.0099	0.1	0.0454	10.9	11.0	< 0.10	2.85
	TUL-12	2025-Jun-18	15.6	50	439	58	0.264	0.285	0.958	1.57	23.4	28.9	< 0.010	0.011	< 0.0050	< 0.0050	< 10	< 10	0.0209	0.14	0.0377	18.5	20.0	< 0.10	0.87
		2025-Jul-17	26.4	50	701	69	0.253	0.254	1.15	1.83	18.9	29.1	< 0.010	0.018	< 0.0050	0.0170	< 10	< 10	0.153	0.12	0.214	15.2	15.7	< 0.10	1.19
		2025-Aug-22	25.6	50	113	17	0.287	0.235	1.33	1.19	20.5	18.3	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.113	0.11	0.103	18.5	14.6	< 0.10	0.92
		2025-Sep-17	20.1	50	115	31	0.236	0.204	1.26	1.26	17.4	16	< 0.010	< 0.010	< 0.0050	< 0.010	< 10	< 10	0.0272	0.1	0.0286	14.8	13.6	< 0.10	0.22
	W32/TUL-15	2025-Jun-18	31.2	39.0	445	12	0.175	0.187	0.607	1.21	17.4	26.7	< 0.010	0.019	< 0.0050	0.022	< 10	< 10	0.0216	0.11	0.0356	14.2	13.8	< 0.10	0.77
		2025-Jul-17	42.7	50	889	20	0.135	0.145	0.667	1.22	18.7	40.1	< 0.010	0.028	< 0.0050	0.046	< 10	< 10	0.0122	0.11	0.0505	13.3	13.6	< 0.10	1.27
		2025-Aug-22	44.1	50	2970	22	0.166	0.189	0.391	1.86	18.6	75.4	< 0.010	0.078	< 0.0050	0.074	< 10	< 10	0.0094	0.11	0.0587	12.8	11.9	< 0.10	4.59
		2025-Sep-15	35.3	50	2150	21	0.125	0.155	0.573	1.76	18.1	53.5	< 0.010	0.054	< 0.0050	0.055	< 10	< 10	0.0085	0.1	0.0480	11.2	11.3	< 0.10	3.36
TRIBUTARY (ZONE 4)	SW24-5	2025-Jun-20	11.0	50	25.6	24	0.083	0.078	0.417	0.458	8.25	8.87	< 0.010	< 0.010	< 0.0050	< 0.0050	< 10	< 10	< 0.0050	0.063	< 0.0050	6.70	7.17	< 0.10	< 0.10

Notes:

BC WQG (Approved) AWF, Long-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Long-term (superceded BC WQG applied to dissolved aluminum only)
BC WQG (Approved) AWF, Short-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Short-term (screened for dissolved iron only)
BC WQG (Working) AWF, Long-term	BC Working Water Quality Guidelines, Freshwater Aquatic Life, Long-term
CCME WQG AWF, Long-term	CCME Water Quality Guidelines, Freshwater Aquatic Life, Long-term (screened for dissolved manganese only)
•	samples collected at the same location and date are blind field duplicate/parent pairs
'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	N (Normal)
Result/Result	One or more duplicate results present.
RDL	reported detection limit
m	metres
%	percent
µg/L	microgram per litre
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NA	not applicable
NTU	nephelometric turbidity unit
pH	potential of hydrogen
ns	no standard

Table 3: Metals in Surface Water

			Metals																													
			cobalt	cobalt (dissolved) BC WQG FW (chronic)	cobalt	copper	copper (dissolved) BC WQG FW (chronic) BLM	copper	iron	iron	lead	lead	lithium	lithium	magnesium	magnesium	manganese	manganese (dissolved) CCME WQG FW (chronic)	manganese	manganese (total) BC WQG FW (chronic)	mercury	mercury	mercury (total) BC WQG (chronic) at 5% MeHg	mercury (total) BC WQG (chronic) at 0.5% MeHg	molybdenum	molybdenum	nickel	nickel (dissolved) BC WQG (chronic) BLM	nickel
			F		T	F		T	F	T	F	T	F	T	F	T	F		T		F	T			F	T	F		T
			0.005 - 0.1		0.005 - 0.2	0.05 - 1		0.05 - 2	1 - 20	1 - 100	0.005 - 0.1	0.005 - 0.4	0.5 - 10	0.5 - 10	0.05 - 1	0.05 - 5	0.05 - 1		0.05 - 2		0.0019	0.0019			0.05 - 1	0.05 - 1	0.02 - 0.4		0.02 - 2
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BC WQG (Approved) AWF, Long-term			0.39 - 0.9		ns	0.2 - 1.4		ns	ns	ns	1 - 3	ns	ns	ns	ns	ns	ns	ns	770 - 2500		ns	0.002 - 0.02			ns	7600	0.8 - 12.2		ns
BC WQG (Approved) AWF, Short-term			not screened						350	1000	not screened								not screened										
BC WQG (Working) AWF, Long-term			ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
CCME WQG AWF, Long-term			not screened														200 - 940		not screened										
Zone	**Site**	**Sample Date**																											
Zone 1	TUL-00/W10	2025-Jun-21	0.0393	0.39	0.791	0.155	0.2	3.04	5.0	1520	0.0130	1.03	< 0.50	1.27	1.34	1.87	3.74	200	39.4	770	< 0.0019	< 0.0019	0.002	0.02	2.66	2.51	0.342	1.3	3.05
		2025-Jul-20	0.0317	0.39	0.871	0.147	0.2	3.79	6.6	1410	0.0134	1.52	0.51	1.26	1.50	2.16	4.04	350	46.1	780	< 0.0019	< 0.0019	0.002	0.02	2.37	2.44	0.271	1.2	2.53
		2025-Aug-24	0.0265	0.39	2.46	0.138	0.2	8.57	10.5	6240	0.0206	3.16	< 0.50	4.6	1.17	3.33	2.59	270	125	770	< 0.0019	< 0.0019	0.002	0.02	1.93	1.85	0.224	1.2	7.34
		2025-Sep-19	0.0171	0.39	1.31	0.127	0.2	5.52	4.9	2590	0.0105	2.04	< 0.50	1.56	1.10	2.04	1.62	270	69.4	770	0.0020	< 0.0019	0.002	0.02	1.90	1.92	0.128	1.1	3.75
	SW21-2	2025-Jun-21	0.0397	0.39	0.407	0.322	0.2	2.94	11.0	590	0.0074	0.395	< 0.50	0.62	1.45	1.60	7.88	380	29.3	770	< 0.0019	< 0.0019	0.002	0.02	0.858	0.812	0.987	0.9	2.64
		2025-Jul-18	0.0434	0.39	0.417	0.173	0.2	2.17	7.6	660	0.0064	0.225	< 0.50	0.61	1.37	1.65	7.95	230	26.9	770	< 0.0019	< 0.0019	0.002	0.02	0.704	0.751	0.727	0.8	2.25
		2025-Aug-23	0.0693	0.39	1.78	0.157	0.2	8.00	10.1	3630	0.0076	0.764	< 0.50	2.47	1.07	2.43	12.1	320	88.0	770	< 0.0019	< 0.0019	0.002	0.02	0.679	0.708	0.884	0.9	7.61
		2025-Sep-18	0.0260	0.39	1.16	0.365	0.2	6.39	6.8	1760	0.0050	0.798	< 0.50	0.89	1.45	2.14	7.82	380	77.6	770	< 0.0019	< 0.0019	0.002	0.02	0.950	1.04	1.26	1	6.56
	TUL-03	2025-Jun-23	0.0410	0.39	0.623	0.135	0.2	2.64	4.9	1100	0.0117	0.816	< 0.50	1.03	1.29	1.63	3.45	350	29.8	770	< 0.0019	< 0.0019	0.002	0.02	2.59	2.46	0.360	1.2	2.41
		2025-Jul-16	0.0349	0.39	0.891	0.146	0.2	3.72	6.9	1630	0.0135	1.33	< 0.50	1.27	1.46	2.09	4.24	350	43.6	780	< 0.0019	0.0021	0.002	0.02	2.41	2.43	0.262	1.2	2.78
		2025-Aug-24	0.0311	0.39	2.04	0.139	0.2	6.90	8.7	5240	0.0211	2.35	< 0.50	3.79	1.21	2.85	3.31	270	105	770	< 0.0019	< 0.0019	0.002	0.02	2.08	1.86	0.216	1.2	6.00
		2025-Sep-19	0.0246	0.39	0.821	0.122	0.2	3.52	6.4	1550	0.0110	1.36	< 0.50	0.97	1.10	1.62	2.13	350	41.5	770	< 0.0019	< 0.0019	0.002	0.02	1.91	1.93	0.151	1	2.36
	TUL-05	2025-Jun-21	0.0408	0.39	0.660	0.177	0.2	2.79	5.9	1190	0.0140	0.877	< 0.50	1.09	1.34	1.72	3.83	350	31.9	770	< 0.0019	< 0.0019	0.002	0.02	2.62	2.62	0.364	1.2	2.56
		2025-Jul-20	0.0325	0.39	0.729	0.149	0.2	2.99	7.6	1350	0.0147	1.14	< 0.50	1.06	1.47	1.77	3.36	350	36.9	770	< 0.0019	< 0.0019	0.002	0.02	2.33	2.06	0.288	1.2	2.30
		2025-Aug-24	0.0346	0.39	1.98	0.137	0.2	6.70	9.6	4730	0.0210	2.25	< 0.50	3.68	1.17	2.79	3.05	270	98.7	770	< 0.0019	< 0.0019	0.002	0.02	2.05	1.91	0.212	1.2	5.80
		2025-Sep-19	0.0215	0.39	0.783	0.095	0.2	3.67	5.3	1420	0.0090	1.35	< 0.50	0.88	1.12	1.60	1.97	350	40.2	770	< 0.0019	< 0.0019	0.002	0.02	1.92	1.96	0.145	1	2.20
	TUL-06/SW16-3	2025-Jun-21	0.0441	0.39	0.483	0.209	0.2	2.65	6.8	755	0.0133	0.512	< 0.50	0.76	1.50	1.65	5.44	350	27.6	770	< 0.0019	< 0.0019	0.002	0.02	1.96	1.83	0.566	1.2	2.27
		2025-Jul-18	0.0398	0.39	0.468	0.160	0.2	2.18	6.4	784	0.0120	0.585	< 0.50	0.80	1.58	1.96	5.95	350	26.8	770	< 0.0019	< 0.0019	0.002	0.02	1.60	1.57	0.474	1.1	1.93
		2025-Aug-22	0.0600	0.39	1.54	0.392	0.2	6.15	8.7	3600	0.0173	1.20	< 0.50	2.64	1.34	2.49	6.83	290	76.3	770	< 0.0019	< 0.0019	0.002	0.02	1.41	1.28	0.595	1	5.68
		2025-Sep-18	0.0152	0.39	1.70	0.266	0.2	8.40	7.0	2830	0.0082	1.48	< 0.50	1.49	1.41	2.53	3.70	350	102	770	< 0.0019	< 0.0019	0.002	0.02	1.37	1.43	0.939	1	7.69
TRIBUTARY (ZONE 1)	SW16-1	2025-Jun-22	0.0363	0.39	1.96	0.173	0.2	5.68	9.3	2580	0.0143	1.53	0.57	1.89	1.49	2.26	4.67	350	75.7	820	< 0.0019	0.0110	0.002	0.02	2.34	2.45	0.766	1.5	11.3
		2025-Jul-19	0.0406	0.39	0.529	0.177	0.2	2.22	5.9	1070	0.0128	0.785	0.62	1.21	1.72	2.16	5.78	380	30.3	800	< 0.0019	< 0.0019	0.002	0.02	2.43	2.31	0.431	1.4	2.05
		2025-Sep-18	0.0395	0.39	0.965	0.229	0.2	3.43	7.7	1440	0.0123	1.28	0.51	1.01	1.39	1.88	7.46	350	51.8	800	< 0.0019	0.0061	0.002	0.02	2.30	2.35	0.552	1.4	3.91
	W27	2025-Jun-23	0.0554	0.39	1.57	0.214	0.2	4.80	13.2	2400	0.0162	1.44	0.83	2.08	1.54	2.19	9.06	490	71.7	840	< 0.0019	0.0159	0.002	0.02	2.04	2.22	0.929	1.5	9.38
		2025-Jul-19	0.0269	0.4	0.155	0.160	0.2	0.64	4.7	231	0.0052	0.199	0.99	1.03	2.24	2.11	9.34	430	15.5	860	< 0.0019	0.0028	0.002	0.02	2.34	2.33	0.819	1.7	1.30
		2025-Aug-24	0.0704	0.41	0.292	0.146	0.2	0.85	8.3	606	< 0.0050	0.220	1.39	1.65	2.74	2.16	18.8	320	26.1	870	< 0.0019	0.0033	0.002	0.02	2.99	2.46	1.28	2.3	2.43
		2025-Sep-18	0.0547	0.46	2.19	0.425	0.2	6.51	16.3	4100	0.0103	2.03	1.02	2.96	1.93	3.59	9.43	350	99.3	940	< 0.0019	0.0158	0.002	0.02	2.81	3.31	1.47	2.2	14.0
	SW24-2	2025-Jun-23	0.0084	0.39	0.0450	0.185	0.2	0.343	1.3	66.7	0.0053	0.0258	< 0.50	< 0.50	0.258	0.292	0.266	350	4.69	790	< 0.0019	0.0030	0.002	0.02	0.120	0.109	0.038	1.4	0.159
		2025-Jul-19	< 0.0050	0.39	0.0115	0.154	0.2	0.172	< 1.0	7.5	< 0.0050	0.0078	< 0.50	< 0.50	0.381	0.366	0.067	430	0.536	830	< 0.0019	< 0.0019	0.002	0.02	0.166	0.166	0.050	1.6	0.036
		2025-Aug-23	0.0101	0.4	0.011	0.228	0.2	0.22	< 1.0	8.9	< 0.0050	< 0.020	< 0.50	< 0.50	0.533	0.41	0.053	320	0.38	840	< 0.0019	< 0.0019	0.002	0.02	0.193	0.174	0.057	2.3	< 0.10
		2025-Sep-18	0.0062	0.39	< 0.010	0.267	0.2	0.23	< 1.0	< 5.0	< 0.0050	< 0.020	< 0.50	< 0.50	0.562	0.47	0.077	320	0.28	840	< 0.0019	< 0.0019	0.002	0.02	0.190	0.161	0.037	1.9	< 0.10
Effluent	5200 LEVEL ADIT	2025-Jun-21	14.3	0.89	12.6	25100	0.2	25100	34200	43000	251	234	23	19	18.4	17.6	533	830	490	2300	< 0.0019	0.0021	0.002	0.02	< 1.0	< 1.0	17.2	12.1	15.9
		2025-Jul-18	11.3	0.9	13.5	21000	0.2	25600	20600	49800	207	256	20	23	15.3	18.5	451	940	553	2500	< 0.0019	0.0019	0.002	0.02	< 1.0	< 1.0	15.2	12.2	18.8
		2025-Aug-23	11.9	0.84	10.9	21900	0.2	20400	26500	36800	224	195	24	21	16.6	12.9	462	830	429	2100	< 0.0019	< 0.0019	0.002	0.02	< 1.0	< 1.0	12.9	12.2	13.3
		2025-Sep-18	12.1	0.9	13.0	25200	0.2	24500	25700	44600	236	240	20	17	16.8	16.2	503	940	516	2400	< 0.0019	< 0.0019	0.002	0.02	< 1.0	< 1.0	14.9	12.1	15.9
	5400 LEVEL ADIT	2025-Jun-21	3.26	0.56	3.00	6640	0.2	6510	155	12500	96.9	112	7.3	5.7	4.87	4.4	319	560	295	1200	< 0.0019	0.0154	0.002	0.02	< 0.50	< 0.50	5.98	4.3	5.3
		2025-Jul-19	2.57	0.57	2.49	4950	0.2	5000	70	8440	52.4	81.4	7.1	7.1	4.03	4.1	246	560	252	1200	< 0.0019	0.0111	0.002	0.02	< 0.50	0.88	4.99	4.2	4.43
		2025-Aug-23	2.67	0.56	2.56	5960	0.2	5790	44.5	12700	59.8	92.9	8.4	7.7	4.22	3.4	251	560	241	1200	< 0.0019	0.0111	0.002	0.02	< 0.25	1.25	4.62	4.7	4.89
		2025-Sep-18	2.71	0.58	2.65	6060	0.2	5640	28.2	14300	45.5	90.1	7.3	5.9	4.35	4.0	263	560	257	1200	< 0.0019	0.0076	0.002	0.02	< 0.25	1.57	4.55	4.6	4.90
	5400 CLEAN WATER PIPE	2025-Jun-21	0.901	0.61	0.853	578	0.2	1970	5.8	3770	0.598	39.2	10.2	9.7	2.51	2.43	86.2	770	85.9	1300	< 0.0019	0.0051	0.002	0.02	2.94	3.88	1.66	4.5	1.56
	5900 LEVEL ADIT	2025-Jun-20	3.00	0.57	3.92	3.26	0.2	175	2.3	5030	0.0213	14.5	2.16	2.08	3.10	2.88	41.4	500	68.9	1200	< 0.0019	< 0.0019	0.002	0.02	0.453	0.523	2.34	3.9	2.71
		2025-Jul-19	3.80	0.6	3.74	2.94	0.2	19.6	2.3	663	0.0082	0.937	2.31	1.95	3.12	2.95	56.3	710	53.9	1200	< 0.0019	< 0.0019	0.002	0.02	0.428	0.466	2.70	3.9	2.60
		2025-Aug-23	5.30	0.57	4.96	4.29	0.2	27.5	15.4	990	0.0185	1.40	2.23	2.53	3.08	2.45	75.2	570	71.9	1200	< 0.0019	0.0024	0.002	0.02	0.434	0.404	3.07	4.2	2.86
	SE2	2025-Jun-21	5.43	0.62	4.71	7290	0.2	7000	1120	7910	97.8	97.3	9.9	8.3	6.36	6.0	334	610	305	1300	< 0.0019	0.0074	0.002	0.02	< 0.50	0.33	8.42	5.4	7.77
		2025-Jul-18	4.09	0.63	4.39	6100	0.2	6730	320	6220	82.1	92.4	9.6	7.9	5.67	5.4	294	610	295	1300	0.0029	0.0151	0.002	0.02	< 0.50	0.41	6.86	5	7.34
		2025-Aug-23	4.77	0.61	4.43	7730	0.2	7440	1030	12100	100	96.4	11.9	9.4	6.42	4.9	304	610	280	1300	< 0.0019	0.0071	0.002	0.02	< 0.50	0.63	7.05	5.8	6.74
		2025-Sep-18	5.37	0.65	5.30	8020	0.2	7440	540	9150	95.0	99.5	9.6	7.7	6.39	6.2	340	650	333	1400	< 0.0019	0.0057	0.002	0.02	< 0.25	0.56	7.90	5.8	8.0
	WTP POND	2025-Jun-21	1.18	0.71	0.975	26.4	0.2	46.4	93.3	365	0.0301	0.108	5.81	4.84	6.08	5.43	75.5	640	67.8	1600	< 0.0019	< 0.0019	0.002	0.02	0.382	0.328	5.55	6.5	4.88
		2025-Jul-18	0.798	0.74	0.802	15.7	0.6	44.7	39.4	305	0.0165	0.114	5.45	5.22	6.27	6.14	55.1	430	58.1	1700	< 0.0019	< 0.0019	0.002	0.02	0.323	0.318	3.61	7	3.81
		2025-Aug-21	0.586	0.68	0.547	15.5	1.1	39.0	11.1	187	0.0114	0.106	5.17	4.96	5.60	4.02	37.0	270	37.4	1500	< 0.0019	< 0.0019	0.002	0.02	0.466	0.357	2.30	8	2.36
		2025-Sep-18	0.476	0.67	0.474	11.8	0.7	33.6	13.9	233	0.0051	0.116	4.77	3.61	5.33	4.56	29.4	420	32.4	1500	< 0.0019	< 0.0019	0.002	0.02	0.345	0.325	1.84	6.8	2.10
	6400 LEVEL ADIT	2025-Aug-23	0.0573	0.42	0.060	13.8	0.2	56.9	73.9	542	0.0472	0.526	< 0.50	< 0.50	0.520	0.45	3.05	320	3.19	880	< 0.0019	< 0.0019	0.002	0.02	0.165	0.160	0.116	2.1	0.14

Table 3: Metals in Surface Water

			Metals																													
			cobalt	cobalt (dissolved) BC WQG FW (chronic)	cobalt	copper	copper (dissolved) BC WQG FW (chronic) BLM	copper	iron	iron	lead	lead	lithium	lithium	magnesium	magnesium	manganese	manganese (dissolved) CCME WQG FW (chronic)	manganese	manganese (total) BC WQG FW (chronic)	mercury	mercury	mercury (total) BC WQG (chronic) at 5% MeHg	mercury (total) BC WQG (chronic) at 0.5% MeHg	molybdenum	molybdenum	nickel	nickel (dissolved) BC WQG (chronic) BLM	nickel	
			Filtered or Total	F		T	F		T	T	F	T	F	T	F	F	F		T		F	T			F	T	F		T	
			RDL	0.005 - 0.1		0.005 - 0.2	0.05 - 1		0.05 - 2	1 - 20	1 - 100	0.005 - 0.1	0.005 - 0.4	0.5 - 10	0.5 - 10	0.05 - 1	0.05 - 5	0.05 - 1		0.05 - 2		0.0019	0.0019			0.05 - 1	0.05 - 1	0.02 - 0.4		0.02 - 2	
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
			BC WQG (Approved) AWF, Long-term	0.39 - 0.9		ns	0.2 - 1.4		ns	ns	ns	1 - 3	ns	ns	ns	ns	ns	ns	ns		770 - 2500		ns	0.002 - 0.02			ns	7600	0.8 - 12.2		ns	
			BC WQG (Approved) AWF, Short-term	not screened						350	1000	not screened									not screened											
			BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
			CCME WQG AWF, Long-term	not screened														200 - 940		not screened												
Zone	**Site**	**Sample Date**																														
Zone 2	SW24-1	2025-Jun-19	0.0397	0.39	0.285	0.209	0.2	1.50	6.2	427	0.0104	0.295	< 0.50	0.54	1.59	1.52	4.04	350	14.5	770	< 0.0019	< 0.0019	0.002	0.02	1.93	1.77	0.536	1.2	1.47	
		2025-Jul-18	0.0271	0.39	0.600	0.142	0.2	2.94	6.6	1190	0.0125	0.872	< 0.50	0.95	1.56	1.98	2.30	350	29.8	790	< 0.0019	< 0.0019	0.002	0.02	2.73	2.74	0.260	1.3	1.95	
		2025-Aug-24	0.0331	0.39	1.41	0.145	0.2	5.25	8.4	3130	0.0177	1.82	< 0.50	2.61	1.22	2.11	2.58	270	71.9	770	< 0.0019	< 0.0019	0.002	0.02	2.08	1.82	0.218	1.2	4.15	
		2025-Sep-17	0.0165	0.39	1.24	0.104	0.2	5.36	5.1	2590	0.0096	1.78	< 0.50	1.80	1.07	2.15	2.27	350	65.0	770	< 0.0019	< 0.0019	0.002	0.02	1.85	2.00	0.148	1	3.71	
	SW24-11	2025-Jun-19	0.0310	0.39	0.561	0.235	0.2	1.57	11.0	427	0.0138	0.452	0.73	0.92	1.78	1.65	3.09	270	22.0	820	< 0.0019	0.0157	0.002	0.02	2.40	2.30	0.811	1.7	3.10	
		2025-Jul-18	0.0346	0.39	0.751	0.205	0.2	3.20	6.3	1320	0.0153	1.18	< 0.50	1.12	1.56	1.99	4.37	350	37.9	790	< 0.0019	< 0.0019	0.002	0.02	2.50	2.37	0.289	1.3	2.62	
		2025-Aug-22	0.0335	0.39	1.34	0.135	0.2	5.09	5.5	2900	0.0115	1.75	< 0.50	2.58	1.39	2.16	3.97	330	69.1	770	< 0.0019	< 0.0019	0.002	0.02	2.29	2.00	0.286	1.3	4.10	
		2025-Sep-17	0.0235	0.39	0.724	0.144	0.2	3.39	5.4	1300	0.0093	1.22	< 0.50	1.15	1.22	1.83	3.82	350	39.7	770	< 0.0019	0.0026	0.002	0.02	1.99	2.09	0.226	1.2	2.38	
	W11	2025-Jun-20	2.01	0.54	1.91	1240	0.2	1980	< 2.0	975	2.10	18.7	3.9	3.7	4.27	3.95	110	610	112	1100	< 0.0019	< 0.0019	0.002	0.02	1.64	2.14	3.70	3.3	3.79	
		2025-Jul-18	0.919	0.46	0.948	307	0.2	976	< 1.0	1020	0.863	15.5	2.13	1.89	2.65	2.50	55.2	530	56.1	940	< 0.0019	< 0.0019	0.002	0.02	2.25	2.37	1.88	2.3	1.95	
		2025-Aug-21	2.19	0.52	2.24	2570	0.2	3020	73.7	2360	14.3	38.2	4.8	4.9	4.01	3.46	128	510	135	1100	< 0.0019	0.0020	0.002	0.02	0.32	1.21	4.23	3.7	4.55	
		2025-Sep-17	1.88	0.5	1.75	1800	0.2	1970	< 2.0	437	4.85	14.0	3.8	3.6	3.71	3.41	116	470	108	1000	< 0.0019	< 0.0019	0.002	0.02	0.93	1.00	4.04	3.4	3.83	
	W44	2025-Jun-19	0.0057	0.48	0.0072	0.096	0.2	0.108	< 1.0	3.2	< 0.0050	< 0.0050	0.78	0.73	3.15	3.31	0.262	490	0.382	990	< 0.0019	< 0.0019	0.002	0.02	3.39	3.43	0.171	2.2	0.195	
		2025-Jul-18	< 0.0050	0.47	0.0066	0.188	0.2	0.216	< 1.0	15.6	< 0.0050	0.0090	0.86	0.59	3.00	3.01	0.083	560	0.181	980	< 0.0019	< 0.0019	0.002	0.02	3.28	3.27	0.242	2.2	0.236	
		2025-Aug-22	0.0086	0.46	< 0.010	0.163	0.2	0.20	< 1.0	< 5.0	< 0.0050	< 0.020	0.87	0.93	3.15	2.58	0.503	590	0.72	950	< 0.0019	< 0.0019	0.002	0.02	3.16	3.01	0.314	2.4	0.30	
		2025-Sep-16	0.0064	0.5	0.019	0.222	0.2	0.38	< 1.0	5.1	< 0.0050	0.044	0.79	0.88	2.89	3.47	1.18	530	2.74	1000	< 0.0019	< 0.0019	0.002	0.02	3.14	3.60	0.293	2.1	0.35	
	W45	2025-Jun-19	0.0075	0.46	< 0.0050	0.180	0.2	0.193	< 1.0	2.4	0.0056	< 0.0050	0.74	0.72	2.88	3.13	0.069	560	0.077	950	< 0.0019	< 0.0019	0.002	0.02	2.10	2.23	0.325	2	0.321	
		2025-Jul-18	0.0100	0.47	0.0186	0.228	0.2	0.279	2.4	8.1	< 0.0050	< 0.0050	0.88	0.61	2.97	2.90	0.657	590	0.893	970	< 0.0019	< 0.0019	0.002	0.02	2.21	2.26	0.371	2.2	0.376	
		2025-Aug-22	0.0203	0.46	0.021	0.254	0.2	0.29	5.0	12.3	< 0.0050	< 0.020	1.01	0.89	3.16	2.61	1.05	480	1.27	950	< 0.0019	< 0.0019	0.002	0.02	2.35	2.16	0.407	2.3	0.39	
		2025-Sep-16	0.0134	0.48	0.018	0.230	0.2	0.36	3.4	11.8	< 0.0050	0.028	0.82	0.88	2.91	3.25	0.433	530	0.56	980	< 0.0019	< 0.0019	0.002	0.02	2.35	2.59	0.355	2	0.39	
	W46/SW21-4	2025-Jun-20	0.0427	0.39	1.18	0.240	0.2	3.29	7.7	1080	0.0129	0.848	0.65	1.26	1.60	1.80	4.35	320	43.5	820	< 0.0019	0.0106	0.002	0.02	2.42	2.45	0.711	1.6	5.62	
		2025-Jul-18	0.0401	0.39	0.656	0.184	0.2	2.81	7.5	1130	0.0168	1.04	0.51	0.91	1.60	1.95	4.69	350	33.8	790	< 0.0019	< 0.0019	0.002	0.02	2.55	2.48	0.313	1.3	2.11	
		2025-Aug-24	0.0343	0.39	1.58	0.119	0.2	5.75	7.6	3660	0.0171	2.08	0.58	2.94	1.35	2.59	3.81	270	82.6	780	< 0.0019	< 0.0019	0.002	0.02	2.24	2.11	0.251	1.3	4.71	
		2025-Sep-17	0.0238	0.39	1.03	0.137	0.2	4.29	6.0	1950	0.0091	1.46	< 0.50	1.59	1.28	2.18	3.62	350	56.3	790	< 0.0019	0.0036	0.002	0.02	2.03	2.26	0.245	1.2	3.46	
TRIBUTARY (ZONE 2)	CC-01	2025-Jun-20	0.0130	0.39	0.0185	6.73	0.2	8.68	5.6	17.9	0.218	0.466	< 0.50	< 0.50	0.415	0.403	0.622	320	1.44	800	< 0.0019	< 0.0019	0.002	0.02	0.131	0.133	0.064	1.6	0.091	
	CC-02	2025-Jun-20	0.0147	0.39	0.0225	6.17	0.2	8.82	5.2	27.3	0.212	0.604	< 0.50	< 0.50	0.366	0.381	0.682	270	2.24	800	< 0.0019	< 0.0019	0.002	0.02	0.126	0.129	0.060	1.7	0.091	
		2025-Jul-19	0.0126	0.4	0.0186	4.97	0.2	6.84	3.0	18.6	0.126	0.345	< 0.50	< 0.50	0.498	0.488	0.628	500	1.28	850	< 0.0019	< 0.0019	0.002	0.02	0.186	0.165	0.051	1.7	0.068	
		2025-Aug-23	0.0181	0.41	0.018	7.06	0.2	9.08	5.9	18.9	0.196	0.426	< 0.50	< 0.50	0.563	0.48	0.718	320	1.01	870	< 0.0019	< 0.0019	0.002	0.02	0.190	0.180	0.077	2.3	0.25	
		2025-Sep-18	0.0185	0.41	0.019	7.84	0.2	9.07	7.0	24.9	0.197	0.422	< 0.50	< 0.50	0.585	0.55	0.976	490	1.23	860	< 0.0019	< 0.0019	0.002	0.02	0.218	0.190	0.103	1.8	0.14	
	CC-04	2025-Jun-20	< 0.0050	0.39	0.029	0.219	0.2	0.51	1.9	16.4	< 0.0050	0.043	< 0.50	< 0.50	0.241	< 0.25	0.205	270	2.70	770	< 0.0019	< 0.0019	0.002	0.02	0.085	0.079	0.031	1.4	< 0.10	
		2025-Jul-19	0.0103	0.4	0.083	0.193	0.2	0.85	< 1.0	75.8	0.0110	0.962	< 0.50	< 0.50	0.393	0.40	0.104	490	5.77	850	< 0.0019	< 0.0019	0.002	0.02	0.179	0.177	0.027	1.7	< 0.10	
		2025-Aug-23	0.0060	0.4	< 0.010	0.165	0.2	0.18	< 1.0	< 5.0	< 0.0050	< 0.020	< 0.50	< 0.50	0.462	0.36	0.074	320	0.45	850	< 0.0019	< 0.0019	0.002	0.02	0.155	0.141	0.036	2.2	< 0.10	
Zone 3	SW16-8	2025-Jun-19	0.0177	0.39	0.185	2.49	0.2	5.92	6.0	393	0.0201	0.355	< 0.50	< 0.50	0.818	0.993	0.417	500	7.84	830	< 0.0019	0.0023	0.002	0.02	0.308	0.295	0.123	1.6	0.887	
		2025-Jul-17	0.0132	0.4	0.0880	2.09	0.2	4.37	2.1	176	0.0110	0.199	0.54	< 0.50	0.959	1.02	0.729	490	3.54	860	< 0.0019	< 0.0019	0.002	0.02	0.531	0.528	0.186	1.9	0.717	
		2025-Aug-21	0.0181	0.42	0.093	2.17	0.2	3.59	2.1	161	0.0063	0.230	0.51	0.56	1.09	0.99	0.655	490	4.42	870	< 0.0019	< 0.0019	0.002	0.02	0.473	0.424	0.161	2	0.45	
		2025-Sep-16	0.0098	0.47	0.026	1.27	0.2	1.84	1.9	27.6	< 0.0050	0.063	< 0.50	< 0.50	1.34	1.47	1.95	530	4.10	970	< 0.0019	< 0.0019	0.002	0.02	0.395	0.415	0.141	2.2	0.31	
	SW24-4	2025-Jun-19	0.0192	0.4	0.336	0.253	0.2	1.20	3.3	333	0.0108	0.314	0.66	0.82	1.92	1.84	1.77	490	14.4	850	< 0.0019	0.0033	0.002	0.02	3.30	3.12	0.381	1.7	1.66	
		2025-Jul-18	0.0086	0.45	0.0144	3.90	0.2	5.88	< 1.0	21.9	0.0285	0.103	0.84	0.60	2.63	2.55	0.306	590	0.650	940	< 0.0019	< 0.0019	0.002	0.02	3.33	3.14	0.172	2.2	0.195	
		2025-Aug-21	0.0312	0.39	0.086	5.42	0.2	20.7	< 1.0	167	0.0247	0.283	0.72	0.82	1.72	1.45	1.41	270	4.40	800	< 0.0019	< 0.0019	0.002	0.02	3.24	2.93	0.206	1.7	0.45	
		2025-Sep-17	< 0.0050	0.39	0.067	0.854	0.2	2.89	< 1.0	142	< 0.0050	0.137	< 0.50	0.65	1.50	1.74	0.143	380	3.01	820	< 0.0019	< 0.0019	0.002	0.02	3.21	3.58	0.084	1.4	0.37	
	TUL-09	2025-Jun-19	0.0202	0.39	1.31	0.221	0.2	3.68	10.2	1500	0.0140	1.16	0.67	1.40	1.70	2.04	2.07	390	56.0	840	< 0.0019	0.0138	0.002	0.02	2.41	2.42	0.784	1.6	6.48	
		2025-Jul-18	0.0363	0.39	0.912	0.166	0.2	3.69	8.9	1750	0.0180	1.28	< 0.50	1.30	1.51	2.16	4.16	350	46.4	790	< 0.0019	< 0.0019	0.002	0.02	2.44	2.18	0.307	1.3	2.87	
		2025-Aug-22	0.0289	0.39	1.47	0.132	0.2	5.37	6.3	3430	0.0142	1.87	< 0.50	2.69	1.41	2.61	3.72	330	75.7	780	< 0.0019	< 0.0019	0.002	0.02	2.16	2.14	0.290	1.2	4.50	
		2025-Sep-15	0.0235	0.39	1.10	0.132	0.2	4.37	5.3	2220	0.0123	1.59	< 0.50	1.44	1.28	1.98	3.88	270	59.2	770	< 0.0019	0.0019	0.002	0.02	2.05	1.84	0.239	1.2	3.41	
TRIBUTARY (ZONE 3)	SW21-5	2025-Jun-19	0.0104	0.39	0.229	0.147	0.2	1.30	4.5	428	< 0.0050	0.0839	< 0.50	< 0.50	1.08	1.31	3.97	380	16.6	780	< 0.0019	< 0.0019	0.002	0.02	0.406	0.444	0.034	1.3	0.483	
		2025-Jul-17	0.0090	0.39	0.093	0.136	0.2	0.69	2.9	168	0.0106	0.028	< 0.50	< 0.50	0.913	0.95	1.69	270	6.36	770	< 0.0019	< 0.0019	0.002	0.02	0.514	0.456	0.069	1.2	0.22	
		2025-Aug-21	0.0058	0.39	0.077	0.152	0.2	0.53	1.4	151	< 0.0050	0.025	< 0.50	< 0.50	0.989	0.90	1.60	380	4.85	770	0.0056	< 0.0019	0.002	0.02	0.515	0.483	0.035	1.4	0.34	
		2025-Sep-17	< 0.0050	0.39	0.078	0.103	0.2	0.46	1.2	138	< 0.0050	0.040	< 0.50	< 0.50	0.925	1.06	1.51	350	5.63	770	< 0.0019	< 0.0019	0.002	0.02	0.428	0.499	0.028	1.2	0.25	

Table 3: Metals in Surface Water

			Metals																													
			cobalt	cobalt (dissolved) BC WQG FW (chronic)	cobalt	copper	copper (dissolved) BC WQG FW (chronic) BLM	copper	iron	iron	lead	lead	lithium	lithium	magnesium	magnesium	manganese	manganese (dissolved) CCME WQG FW (chronic)	manganese	manganese (total) BC WQG FW (chronic)	mercury	mercury	mercury (total) BC WQG (chronic) at 5% MeHg	mercury (total) BC WQG (chronic) at 0.5% MeHg	molybdenum	molybdenum	nickel	nickel (dissolved) BC WQG (chronic) BLM	nickel	
		Filtered or Total	F		T	F		T	F		F	T	F	T	F	T	F		T		F	T			F	T	F		T	
		RDL	0.005 - 0.1		0.005 - 0.2	0.05 - 1		0.05 - 2	1 - 20	1 - 100	0.005 - 0.1	0.005 - 0.4	0.5 - 10	0.5 - 10	0.05 - 1	0.05 - 5	0.05 - 1		0.05 - 2		0.0019	0.0019			0.05 - 1	0.05 - 1	0.02 - 0.4		0.02 - 2	
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
		BC WQG (Approved) AWF, Long-term	0.39 - 0.9		ns	0.2 - 1.4		ns	ns	ns	1 - 3	ns	ns	ns	ns	ns	ns	ns	770 - 2500		ns	0.002 - 0.02			ns	7600	0.8 - 12.2		ns	
		BC WQG (Approved) AWF, Short-term	not screened					350	1000	not screened																				
		BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
		CCME WQG AWF, Long-term	not screened														200 - 940		not screened											
Zone	**Site**	**Sample Date**																												
Zone 4	SW24-6	2025-Jun-18	0.0343	0.39	0.408	0.187	0.2	1.74	4.8	703	0.0098	0.511	< 0.50	0.86	1.62	1.76	2.88	270	19.7	780	< 0.0019	0.0024	0.002	0.02	2.51	2.37	0.390	1.4	1.76	
		2025-Jul-17	0.0380	0.39	0.785	0.162	0.2	3.19	7.8	1440	0.0155	1.16	0.51	1.09	1.53	2.09	4.32	350	39.9	790	< 0.0019	< 0.0019	0.002	0.02	2.50	2.31	0.313	1.3	2.54	
		2025-Aug-22	0.0432	0.39	1.38	0.142	0.2	5.14	6.4	3210	0.0146	1.80	0.52	2.57	1.42	2.43	3.93	350	72.6	780	< 0.0019	< 0.0019	0.002	0.02	2.27	2.24	0.305	1.3	4.18	
		2025-Sep-15	0.0261	0.39	1.12	0.126	0.2	4.40	3.8	2490	0.0087	1.46	< 0.50	1.55	1.34	2.28	3.79	350	58.0	770	< 0.0019	< 0.0019	0.002	0.02	2.04	1.93	0.236	1.2	3.58	
	SW24-7	2025-Jun-18	0.0379	0.39	0.535	0.228	0.2	1.89	6.4	725	0.0117	0.576	0.50	0.92	1.56	1.71	4.64	350	25.6	800	< 0.0019	0.0042	0.002	0.02	2.38	2.32	0.577	1.4	2.55	
		2025-Jul-17	0.0419	0.39	0.801	0.208	0.2	3.53	9.3	1570	0.0178	1.18	0.57	1.14	1.55	2.10	4.80	320	40.9	800	< 0.0019	< 0.0019	0.002	0.02	2.36	2.36	0.301	1.3	2.64	
		2025-Aug-22	0.0348	0.39	1.42	0.160	0.2	5.34	7.8	3320	0.0170	1.84	< 0.50	2.64	1.37	2.44	4.44	380	74.7	790	< 0.0019	< 0.0019	0.002	0.02	2.13	2.06	0.300	1.3	4.32	
		2025-Sep-15	0.0226	0.39	0.773	0.140	0.2	3.30	5.7	1540	0.0117	1.24	< 0.50	1.11	1.28	1.74	3.75	350	42.7	770	< 0.0019	< 0.0019	0.002	0.02	2.10	1.86	0.203	1.2	2.42	
	SW24-8	2025-Jun-18	0.0110	0.42	0.0211	0.339	0.2	0.464	< 1.0	24.9	< 0.0050	0.0135	0.64	0.67	2.55	2.66	0.149	430	0.440	890	< 0.0019	< 0.0019	0.002	0.02	2.42	2.45	0.307	1.8	0.340	
		2025-Jul-17	0.0079	0.46	0.0259	0.412	0.2	0.677	< 1.0	27.4	< 0.0050	0.0352	0.72	0.58	2.92	2.89	0.380	490	0.886	950	< 0.0019	< 0.0019	0.002	0.02	2.94	2.84	0.368	2	0.392	
		2025-Aug-22	0.0118	0.44	0.021	0.382	0.2	0.44	1.4	21	< 0.0050	0.022	0.74	0.77	3.07	2.42	0.424	460	0.95	910	< 0.0019	< 0.0019	0.002	0.02	2.73	2.40	0.460	2	0.45	
		2025-Sep-15	0.0085	0.44	0.013	0.288	0.2	0.30	1.1	9.2	< 0.0050	< 0.020	0.69	< 0.50	3.28	2.73	0.261	500	0.55	920	< 0.0019	< 0.0019	0.002	0.02	2.73	2.32	0.419	2.1	0.41	
	SW24-10	2025-Jun-19	0.0345	0.39	1.22	0.235	0.2	3.47	10.2	1390	0.0143	1.15	0.66	1.31	1.64	2.03	4.08	320	53.8	830	< 0.0019	0.0121	0.002	0.02	2.38	2.49	0.724	1.6	5.65	
		2025-Jul-17	0.0375	0.39	0.812	0.182	0.2	3.40	7.3	1480	0.0154	1.29	0.54	1.40	1.53	2.21	4.71	350	43.0	780	< 0.0019	< 0.0019	0.002	0.02	2.55	2.28	0.298	1.3	2.69	
		2025-Aug-22	0.0288	0.39	1.33	0.134	0.2	4.88	7.3	2980	0.0149	1.70	< 0.50	2.46	1.46	2.39	3.95	350	69.0	780	< 0.0019	< 0.0019	0.002	0.02	2.32	2.22	0.273	1.3	3.91	
		2025-Sep-17	0.0280	0.39	1.10	0.158	0.2	4.27	5.5	2410	0.0111	1.49	< 0.50	1.58	1.27	2.09	3.90	380	58.1	770	< 0.0019	0.0021	0.002	0.02	2.03	1.90	0.255	1.1	3.50	
	TUL-12	2025-Jun-18	0.0153	0.41	0.300	0.253	0.2	1.66	2.1	550	0.0062	0.136	< 0.50	0.74	1.63	1.99	3.24	220	18.6	860	< 0.0019	< 0.0019	0.002	0.02	1.58	1.55	0.131	1.7	0.991	
		2025-Jul-17	0.0174	0.39	0.399	1.21	0.2	10.2	1.5	837	0.0065	0.549	0.56	0.75	1.31	1.65	1.65	200	20.7	810	< 0.0019	< 0.0019	0.002	0.02	1.58	1.55	0.132	1.5	1.12	
		2025-Aug-22	0.0083	0.39	0.071	1.23	0.2	2.55	< 1.0	141	< 0.0050	0.068	0.50	0.56	1.30	1.07	1.01	350	3.98	780	< 0.0019	< 0.0019	0.002	0.02	1.40	1.15	0.075	1.6	0.26	
		2025-Sep-17	< 0.0050	0.39	0.060	0.198	0.2	0.56	< 1.0	111	< 0.0050	0.049	< 0.50	< 0.50	1.15	1.03	1.24	350	3.96	770	< 0.0019	< 0.0019	0.002	0.02	1.07	0.948	0.069	1.4	0.18	
	W32/TUL-15	2025-Jun-18	0.0499	0.39	0.446	0.304	0.2	1.65	5.8	594	0.0372	0.513	< 0.50	0.89	1.51	1.67	5.03	310	21.1	790	< 0.0019	0.0040	0.002	0.02	2.32	2.28	0.557	1.3	2.12	
		2025-Jul-17	0.0379	0.39	0.637	0.187	0.2	2.83	7.4	1090	0.0149	0.993	0.52	1.18	1.52	2.09	4.62	350	33.2	790	< 0.0019	0.0020	0.002	0.02	2.39	2.21	0.283	1.3	2.06	
		2025-Aug-22	0.0365	0.39	1.43	0.144	0.2	5.33	8.2	3450	0.0151	1.81	< 0.50	2.66	1.36	2.39	4.09	380	75.0	780	< 0.0019	< 0.0019	0.002	0.02	2.13	2.06	0.262	1.3	4.36	
		2025-Sep-15	0.0253	0.39	1.22	0.124	0.2	4.50	5.1	2740	0.0095	1.49	< 0.50	1.75	1.28	2.26	4.05	380	63.3	770	< 0.0019	< 0.0019	0.002	0.02	2.04	1.90	0.231	1.1	3.89	
TRIBUTARY (ZONE 4)	SW24-5	2025-Jun-20	0.0056	0.39	0.0144	0.167	0.2	0.214	1.7	19.4	< 0.0050	0.0160	< 0.50	< 0.50	0.304	0.327	0.153	260	1.18	770	< 0.0019	< 0.0019	0.002	0.02	0.087	0.096	0.027	0.8	0.044	

Notes:

BC WQG (Approved) AWF, Long-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Long-term (superceded BC WQG applied to dissolved aluminum only)
BC WQG (Approved) AWF, Short-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Short-term (screened for dissolved iron only)
BC WQG (Working) AWF, Long-term	BC Working Water Quality Guidelines, Freshwater Aquatic Life, Long-term
CCME WQG AWF, Long-term	CCME Water Quality Guidelines, Freshwater Aquatic Life, Long-term (screened for dissolved manganese only)
•	samples collected at the same location and date are blind field duplicate/parent pairs
'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	N (Normal)
Result/Result	One or more duplicate results present.
RDL	reported detection limit
m	metres
%	percent
µg/L	microgram per litre
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NA	not applicable
NTU	nephelometric turbidity unit
pH	potential of hydrogen
ns	no standard

Table 3: Metals in Surface Water

			Metals																												
			phosphorus	phosphorus	potassium	potassium	selenium	selenium	silver	silver	sodium	sodium	strontium	strontium	thallium	thallium	tin	tin	titanium	titanium	uranium	uranium	vanadium	vanadium	zinc	zinc (dissolved) BC WQG FW (chronic)	zinc	zirconium	zirconium
		Filtered or Total	T	T	T	T	F	T	F	T	F	T	F	T	F	T	T	T	F	T	F	T	F	T	F		T	F	T
		RDL	3	2 - 100	50 - 1000	50 - 5000	0.04 - 0.8	0.04 - 0.8	0.005 - 0.1	0.005 - 0.2	0.05 - 1	0.05 - 5	0.05 - 1	0.05 - 1	0.002 - 0.04	0.002 - 0.04	0.2 - 4	0.2 - 4	0.5 - 10	0.5 - 40	0.002 - 0.04	0.002 - 0.1	0.2 - 4	0.2 - 4	0.1 - 2		0.1 - 20	0.1 - 2	0.1 - 2
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		BC WQG (Approved) AWF, Long-term	ns	ns	ns	ns	ns	2.0	ns	0.12	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	1.3 - 46		ns	ns	ns
		BC WQG (Approved) AWF, Short-term	not screened																										
		BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	1250	ns	ns	0.03	ns	ns	ns	ns	ns	7.5	ns	60	ns	ns	ns	ns	ns
		CCME WQG AWF, Long-term	not screened																										
Zone	**Site**	**Sample Date**																											
Zone 1	TUL-00/W10	2025-Jun-21	< 3.0	28.0	1130	1280	0.151	0.153	< 0.0050	0.014	0.706	0.76	51.7	54.0	0.0044	0.019	< 0.20	< 0.20	< 0.50	69.5	0.289	0.442	0.24	3.4	0.11	1.3	6.8	< 0.10	0.10
		2025-Jul-20	< 3.0	54/50.3	1050	1420	0.156	0.176	< 0.0050	0.020	0.647	0.75	52	59.3	0.0040	0.0228	< 0.20	< 0.20	0.55	72.9	0.266	0.459	0.23	3.18	< 0.10	4	7.5	< 0.10	< 0.10
		2025-Aug-24	< 3.0	67/59	874	2300	0.123	0.154	< 0.0050	0.034	0.543	1.28	47	56.4	0.0049	**0.0619**	< 0.20	< 0.40	0.89	323	0.240	0.589	0.21	15.8	0.14	1.4	20.3	< 0.10	0.72
		2025-Sep-19	< 3.0	60/54.6	818	1360	0.117	0.135	< 0.0050	0.025	0.446	0.66	44.6	51.7	0.0050	0.029	< 0.20	< 0.20	< 0.50	112	0.179	0.456	< 0.20	5.5	< 0.10	1.4	11.7	< 0.10	0.11
	SW21-2	2025-Jun-21	< 3.0	13.0	666	710	0.142	0.143	< 0.0050	< 0.010	0.180	< 0.25	29	29.0	0.0057	0.0107	< 0.20	< 0.20	< 0.50	14.7	0.0470	0.122	< 0.20	1.28	0.24	2	4.3	< 0.10	< 0.10
		2025-Jul-18	< 3.0	26/16.5	533	590	0.118	0.127	< 0.0050	< 0.010	0.168	< 0.25	25.2	25.7	0.0037	0.0085	< 0.20	< 0.20	< 0.50	17.7	0.0278	0.0861	< 0.20	1.6	0.19	2.7	2.9	< 0.10	< 0.10
		2025-Aug-23	< 3.0	83/56.3	502	860	0.113	0.134	< 0.0050	0.020	0.132	< 0.25	22.8	20.9	0.0062	**0.0308**	< 0.20	< 0.20	< 0.50	117	0.0290	0.165	< 0.20	9.23	0.27	1.3	10.8	< 0.10	< 0.10
		2025-Sep-18	< 3.0	110/44.6	688	940	0.150	0.175	< 0.0050	0.023	0.175	< 0.25	31	32.8	0.0105	0.0248	< 0.20	< 0.20	< 0.50	42.7	0.0453	0.181	< 0.20	4.01	< 0.10	2.7	9.0	< 0.10	< 0.10
	TUL-03	2025-Jun-23	< 3.0	20.8	1100	1210	0.162	0.158	< 0.0050	0.012	0.678	0.71	49.8	51.4	0.0043	0.0149	< 0.20	< 0.20	< 0.50	54.6	0.263	0.404	0.24	2.44	0.11	2.1	8.0	< 0.10	< 0.10
		2025-Jul-16	< 3.0	50/33.7	1060	1450	0.143	0.166	< 0.0050	0.021	0.642	0.77	52.6	57.4	0.0052	0.0232	< 0.20	< 0.20	0.51	87.1	0.252	0.473	0.22	3.81	< 0.10	2.8	7.9	< 0.10	0.12
		2025-Aug-24	< 3.0	62/47.6	873	2070	0.112	0.126	< 0.0050	0.031	0.550	1.13	47.4	52.6	0.0038	**0.0516**	< 0.20	< 0.20	0.55	265	0.232	0.553	< 0.20	12.8	0.22	1.4	15.7	< 0.10	0.75
		2025-Sep-19	< 3.0	57/34.3	846	1170	0.105	0.138	< 0.0050	0.019	0.460	0.56	43.7	47.8	0.0045	0.0225	< 0.20	< 0.20	< 0.50	68.1	0.141	0.379	< 0.20	3.34	< 0.10	2	6.7	< 0.10	0.12
	TUL-05	2025-Jun-21	< 3.0	25.0	1110	1270	0.145	0.150	< 0.0050	0.012	0.700	0.74	51.2	54.8	0.0039	0.0162	< 0.20	< 0.20	< 0.50	57.3	0.254	0.43	0.24	2.65	0.25	2.1	7.0	< 0.10	< 0.10
		2025-Jul-20	< 3.0	43/29.7	1050	1270	0.159	0.156	< 0.0050	0.015	0.633	0.67	52.2	50.8	0.0040	0.0204	< 0.20	< 0.20	0.64	72.2	0.275	0.38	0.20	3.2	0.10	3.3	6.2	< 0.10	0.16
		2025-Aug-24	60	63/48.1	898	2040	0.112	0.123	< 0.0050	0.029	0.541	1.12	47.2	52.2	0.0052	**0.0507**	< 0.20	< 0.20	0.76	271	0.226	0.505	< 0.20	12.4	0.25	1.5	17.7	< 0.10	0.80
		2025-Sep-19	< 3.0	58/32.6	854	1180	0.113	0.136	< 0.0050	0.018	0.463	0.55	44.8	49.1	0.0039	0.0215	< 0.20	< 0.20	< 0.50	67.8	0.138	0.393	< 0.20	3.12	< 0.10	2.2	6.7	< 0.10	0.15
	TUL-06/SW16-3	2025-Jun-21	< 3.0	18.0	961	1020	0.188	0.172	< 0.0050	< 0.010	0.523	0.51	45.2	44.1	0.0051	0.012	< 0.20	< 0.20	< 0.50	32.2	0.135	0.28	< 0.20	1.72	0.20	1.9	5.4	< 0.10	< 0.10
		2025-Jul-18	< 3.0	36/18.3	845	1000	0.170	0.172	< 0.0050	< 0.010	0.463	0.52	41.1	43.5	0.0047	0.0126	< 0.20	< 0.20	< 0.50	34.7	0.136	0.234	< 0.20	1.76	0.30	2.1	4.0	< 0.10	< 0.10
		2025-Aug-22	< 3.0	40/47.2	752	1330	0.150	0.153	< 0.0050	0.021	0.394	0.61	37.8	36.4	0.0046	**0.0331**	< 0.20	< 0.20	0.52	150	0.0747	0.302	< 0.20	9.24	0.47	4.1	11.9	< 0.10	0.39
		2025-Sep-18	< 3.0	89/67.5	827	1220	0.148	0.191	< 0.0050	0.030	0.338	0.41	38.5	40.6	0.0080	**0.0326**	< 0.20	< 0.20	< 0.50	79.1	0.0833	0.316	< 0.20	6.1	< 0.10	3.9	13.4	< 0.10	< 0.10
TRIBUTARY (ZONE 1)	SW16-1	2025-Jun-22	< 3.0	62.4	720	950	0.186	0.275	< 0.0050	0.026	0.572	0.62	76.9	81.2	0.0095	**0.052**	< 0.20	< 0.20	< 0.50	39.9	0.242	0.446	< 0.20	4.18	0.16	3	13.7	< 0.10	< 0.10
		2025-Jul-19	< 3.0	31/24.5	845	1030	0.181	0.186	< 0.0050	0.010	0.645	0.73	77.1	77.8	0.0058	0.0158	< 0.20	< 0.20	< 0.50	49.3	0.275	0.375	< 0.20	2.37	0.21	3.5	5.3	< 0.10	< 0.10
		2025-Sep-18	< 3.0	76/45.4	750	1050	0.183	0.232	< 0.0050	0.017	0.507	0.59	73.8	78.7	0.0061	0.0296	< 0.20	< 0.20	< 0.50	50.5	0.243	0.444	< 0.20	2.86	< 0.10	2.5	8.0	< 0.10	0.14
	W27	2025-Jun-23	< 3.0	60.6	291	550	0.202	0.302	< 0.0050	0.021	0.412	0.45	96.1	98.8	0.0077	**0.0534**	< 0.20	< 0.20	< 0.50	20.8	0.318	0.498	< 0.20	4.12	0.18	5.8	14.0	< 0.10	< 0.10
		2025-Jul-19	< 3.0	16/7.6	288	300	0.214	0.204	< 0.0050	< 0.010	0.529	0.49	131	127	0.0055	0.0105	< 0.20	< 0.20	< 0.50	3.6	0.376	0.464	< 0.20	0.49	**3.91**	3.3	2.3	< 0.10	0.12
		2025-Aug-24	< 3.0	12/11.9	340	370	0.248	0.210	< 0.0050	< 0.010	0.677	0.49	181	131	0.0083	0.015	< 0.20	< 0.20	< 0.50	11.5	0.658	0.544	< 0.20	1.41	0.20	2.7	2.5	< 0.10	< 0.10
		2025-Sep-18	< 3.0	100/101	419	910	0.336	0.572	< 0.0050	0.031	0.570	0.67	139	151	0.0082	**0.0879**	< 0.20	< 0.20	< 0.50	24.2	0.515	0.734	< 0.20	7.03	< 0.10	4.7	19.8	< 0.10	0.20
	SW24-2	2025-Jun-23	< 3.0	3.8	222	230	0.083	0.069	< 0.0050	< 0.0050	0.247	0.260	23.6	24.9	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	1.50	0.0166	0.0192	< 0.20	< 0.20	< 0.10	2.7	0.37	< 0.10	< 0.10
		2025-Jul-19	< 3.0	< 3.0/2.0	298	302	0.080	0.089	< 0.0050	< 0.0050	0.365	0.349	31.9	33.2	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.0280	0.0339	< 0.20	< 0.20	< 0.10	3.1	< 0.10	< 0.10	< 0.10
		2025-Aug-23	< 3.0	< 3.0/< 5.0	390	330	0.064	0.065	< 0.0050	< 0.010	0.513	0.36	43.1	34.2	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 2.0	0.0562	0.0487	< 0.20	< 0.20	0.69	2.8	< 1.0	< 0.10	< 0.10
		2025-Sep-18	< 3.0	< 3.0/< 5.0	439	370	0.090	0.074	< 0.0050	< 0.010	0.506	0.41	43.9	36.6	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 2.0	0.0601	0.0503	< 0.20	< 0.20	1.16	2.1	1.9	< 0.10	< 0.10
Effluent	5200 LEVEL ADIT	2025-Jun-21	40	< 100	1000	< 5000	< 0.80	< 0.80	0.19	< 0.20	4.2	< 5.0	667	651	1.08	**0.9**	< 4.0	< 4.0	< 10	< 40	19.7	**20.2**	< 4.0	< 4.0	**95300**	44	93900	< 2.0	< 2.0
		2025-Jul-18	43	64/< 100	< 1000	< 5000	< 0.80	< 0.80	0.17	< 0.20	3.7	< 5.0	581	706	0.889	**1.1**	< 4.0	< 4.0	< 10	< 40	13.5	**16.7**	< 4.0	< 4.0	**84100**	46	104000	< 2.0	< 2.0
		2025-Aug-23	32	44/< 100	1100	< 5000	< 0.80	< 0.80	0.12	< 0.20	4.4	< 5.0	686	543	1.04	**0.879**	< 4.0	< 4.0	< 10	< 40	15.3	**13**	< 4.0	< 4.0	**89100**	39	84100	< 2.0	< 2.0
		2025-Sep-18	37	44/< 100	1100	< 5000	< 0.80	< 0.80	0.12	< 0.20	4.1	< 5.0	707	710	0.998	**1.07**	< 4.0	< 4.0	< 10	< 40	15.2	**15.4**	< 4.0	< 4.0	**96800**	46	106000	< 2.0	< 2.0
	5400 LEVEL ADIT	2025-Jun-21	< 3.0	< 50	560	< 2500	< 0.40	< 0.40	< 0.050	**0.16**	2.19	< 2.5	178	168	0.179	**0.16**	< 2.0	< 2.0	< 5.0	< 20	2.27	2.34	< 2.0	< 2.0	**42700**	15	41600	< 1.0	< 1.0
		2025-Jul-19	< 3.0	73/< 25	560	< 1300	< 0.40	0.30	0.056	0.095	3.99	4.3	172	175	0.143	**0.124**	< 2.0	< 1.0	< 5.0	< 10	1.59	1.74	< 2.0	< 1.0	**33700**	16	34200	< 1.0	< 0.50
		2025-Aug-23	< 3.0	79/< 25	570	< 1300	0.25	0.24	0.029	**0.146**	5.20	3.9	187	159	0.125	**0.121**	< 1.0	< 1.0	< 2.5	< 10	2.20	2.09	< 1.0	< 1.0	**34800**	15	35100	< 0.50	< 0.50
		2025-Sep-18	< 3.0	110/32	640	< 1300	0.24	0.36	0.034	0.061	5.45	5.3	199	190	0.130	**0.132**	< 1.0	< 1.0	< 2.5	< 10	1.61	2.06	< 1.0	< 1.0	**35500**	17	35600	< 0.50	< 0.50
	5400 CLEAN WATER PIPE	2025-Jun-21	< 3.0	11	710	680	0.381	0.372	< 0.010	0.056	13.2	13.1	221	223	0.0503	**0.0501**	< 0.40	< 0.40	< 1.0	< 4.0	0.0793	1.88	< 0.40	1.14	**10800**	19	11600	< 0.20	< 0.20
	5900 LEVEL ADIT	2025-Jun-20	< 3.0	14.8	752	710	0.200	0.241	< 0.0050	0.049	1.44	1.33	198	204	0.0152	0.0154	< 0.20	< 0.20	< 0.50	< 2.0	0.207	0.828	< 0.20	0.47	**1300**	6.7	2390	< 0.10	< 0.10
		2025-Jul-19	< 3.0	3.2/5.2	763	730	0.200	0.204	< 0.0050	< 0.010	1.41	1.34	178	175	0.0160	0.0132	< 0.20	< 0.20	< 0.50	< 2.0	0.188	0.262	< 0.20	< 0.20	**1440**	13	1560	0.10	< 0.10
		2025-Aug-23	< 3.0	< 3.0/5.4	773	690	0.194	0.186	< 0.0050	< 0.010	1.50	1.06	188	154	0.0169	0.0149	< 0.20	< 0.20	< 0.50	< 2.0	0.206	0.268	< 0.20	< 0.20	**1350**	8.3	1570	< 0.10	< 0.10
	SE2	2025-Jun-21	< 3.0	< 25	830	< 1300	< 0.40	< 0.20	0.066	0.118	4.18	3.8	234	223	0.241	**0.238**	< 2.0	< 1.0	< 5.0	< 10	3.67	3.85	< 2.0	< 1.0	**37900**	19	36600	< 1.0	< 0.50
		2025-Jul-18	< 3.0	23/< 25	740	< 1300	< 0.40	0.22	0.081	**0.132**	4.73	4.4	226	227	0.213	**0.219**	< 2.0	< 1.0	< 5.0	< 10	2.79	3.27	< 2.0	< 1.0	**35600**	20	35000	< 1.0	< 0.50
		2025-Aug-23	< 3.0	34/< 25	780	< 1300	< 0.40	0.21	0.062	0.120	4.90	3.5	265	212	0.274	**0.25**	< 2.0	< 1.0	< 5.0	< 10	3.89	3.53	< 2.0	< 1.0	**40100**	19	38000	< 1.0	< 0.50
		2025-Sep-18	< 3.0	31/< 50	900	< 2500	< 0.20	< 0.40	0.061	< 0.10	4.82	4.5	268	266	0.258	**0.249**	< 1.0	< 2.0	< 2.5	< 20	3.55	3.58	< 1.0	< 2.0	**39400**	22	39700	< 0.50	< 1.0
	WTP POND	2025-Jun-21	5.7	16.3	1210	960	0.091	0.087	< 0.0050	< 0.010	2.21	1.95	235	185	0.0107	0.0076	< 0.20	< 0.20	< 0.50	< 2.0	0.0855	0.0825	< 0.20	< 0.20	**2480**	23	2350	< 0.10	< 0.10
		2025-Jul-18	6.1	22/23.7	1130	1150	0.082	0.092	< 0.0050	< 0.0050	2.26	2.15	209	214	0.0090	0.0086	< 0.20	< 0.20	< 0.50	< 0.50	0.0915	0.103	< 0.20	< 0.20	**1040**	18	1880	< 0.10	< 0.10
		2025-Aug-21	10	29/22.0	1130	960	0.080	0.082	< 0.0050	< 0.010	2.09	1.43	212	155	0.0093	0.0076	< 0.20	< 0.20	< 0.50	< 2.0	0.106	0.0951	< 0.20	< 0.20	**899**	12	1350	< 0.10	< 0.10
		2025-Sep-18	14	39/29.5	1130	1000	0.081	0.078	< 0.0050	< 0.010	1.90	1.66	196	168	0.0072	0.0074	< 0.20	< 0.20	< 0.50	< 2.0	0.104	0.104	< 0.20	< 0.20	**976**	13	1160	< 0.10	< 0.10
	6400 LEVEL ADIT	2025-Aug-23	< 3.0	< 3.0/< 5.0	293	280	0.123	0.114	< 0.0050	< 0.010	0.676	0.53	50.6	43.9	0.0088	0.0074	< 0.20	< 0.20	< 0.50	< 2.0	0.0678	0.0729	< 0.20	0.22	**164**	2.6	233	< 0.10	< 0.10

Table 3: Metals in Surface Water

			Metals																												
			phosphorus	phosphorus	potassium	potassium	selenium	selenium	silver	silver	sodium	sodium	strontium	strontium	thallium	thallium	tin	tin	titanium	titanium	uranium	uranium	vanadium	vanadium	zinc	zinc (dissolved) BC WQG FW (chronic)	zinc	zirconium	zirconium
		Filtered or Total	T	T	T	T	F	T	F	T	F	T	F	T	F	T	T	T	F	T	F	T	F	T	F		T	F	T
		RDL	3	2 - 100	50 - 1000	50 - 5000	0.04 - 0.8	0.04 - 0.8	0.005 - 0.1	0.005 - 0.2	0.05 - 1	0.05 - 5	0.05 - 1	0.05 - 1	0.002 - 0.04	0.002 - 0.04	0.2 - 4	0.2 - 4	0.5 - 10	0.5 - 40	0.002 - 0.04	0.002 - 0.1	0.2 - 4	0.2 - 4	0.1 - 2		0.1 - 20	0.1 - 2	0.1 - 2
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		BC WQG (Approved) AWF, Long-term	ns	ns	ns	ns	ns	2.0	ns	0.12	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	1.3 - 46		ns	ns	ns
		BC WQG (Approved) AWF, Short-term	not screened																										
		BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	1250	ns	ns	0.03	ns	ns	ns	ns	ns	7.5	ns	60	ns	ns	ns	ns	ns
		CCME WQG AWF, Long-term	not screened																										
Zone	**Site**	**Sample Date**																											
Zone 2	SW24-1	2025-Jun-19	< 3.0	10.3	1010	940	0.189	0.169	< 0.0050	< 0.010	0.545	0.49	46.9	45.0	0.0044	0.0087	< 0.20	< 0.20	< 0.50	17.3	0.194	0.229	< 0.20	0.98	0.15	2.9	3.0	< 0.10	< 0.10
		2025-Jul-18	< 3.0	28/22.9	1150	1420	0.189	0.203	< 0.0050	0.011	0.800	0.90	57.1	61.5	0.0040	0.0158	< 0.20	< 0.20	< 0.50	60.2	0.304	0.455	< 0.20	2.79	< 0.10	2.9	7.1	< 0.10	< 0.10
		2025-Aug-24	4.3	57/39.7	916	1560	0.142	0.140	< 0.0050	0.023	0.582	0.76	49	46.7	0.0044	0.0351	< 0.20	< 0.20	0.75	155	0.247	0.465	< 0.20	7.82	0.23	1.4	11.5	< 0.10	0.70
		2025-Sep-17	< 3.0	61/54.0	841	1370	0.109	0.140	< 0.0050	0.024	0.463	0.69	44.2	52.5	0.0035	0.0284	< 0.20	< 0.20	< 0.50	112	0.136	0.433	< 0.20	5.45	< 0.10	2.3	11.1	< 0.10	0.13
	SW24-11	2025-Jun-19	< 3.0	18.2	607	620	0.218	0.210	< 0.0050	< 0.010	0.563	0.50	95.2	90.2	0.0101	0.0229	< 0.20	< 0.20	< 0.50	9.9	0.352	0.378	< 0.20	0.81	0.20	2.1	4.5	< 0.10	< 0.10
		2025-Jul-18	< 3.0	45/30.1	959	1230	0.172	0.190	< 0.0050	0.016	0.620	0.66	61.9	66.2	0.0055	0.0215	< 0.20	< 0.20	< 0.50	67.8	0.287	0.486	< 0.20	2.96	0.13	2.7	6.2	< 0.10	< 0.10
		2025-Aug-22	< 3.0	56/40.0	852	1370	0.126	0.149	< 0.0050	0.026	0.575	0.68	62.1	58.1	0.0044	0.0322	< 0.20	< 0.20	< 0.50	135	0.295	0.504	< 0.20	6.9	0.12	4.9	11.4	< 0.10	0.19
		2025-Sep-17	< 3.0	55/35.8	798	1140	0.122	0.156	< 0.0050	0.014	0.480	0.61	56.8	64.9	0.0047	0.0201	< 0.20	< 0.20	< 0.50	58.3	0.162	0.44	< 0.20	2.68	< 0.10	2.5	7.3	< 0.10	< 0.10
	W11	2025-Jun-20	< 3.0	5.4	1270	1250	0.316	0.348	0.014	0.029	2.21	2.08	164	163	0.0957	0.102	< 0.40	< 0.40	< 1.0	< 1.0	0.0425	1.24	< 0.40	< 0.40	9670	14	10200	< 0.20	< 0.20
		2025-Jul-18	< 3.0	5.6/7.3	1030	1000	0.229	0.256	0.0088	0.016	1.46	1.47	110	106	0.0537	0.0515	< 0.20	< 0.20	< 0.50	3.9	0.0140	0.754	< 0.20	0.28	5280	9.6	5160	< 0.10	< 0.10
		2025-Aug-21	< 3.0	9.5/< 10	1010	1030	0.174	0.219	0.016	0.040	2.35	1.86	164	143	0.112	0.113	< 0.40	< 0.40	< 1.0	7.3	0.759	1.88	< 0.40	0.5	14000	13	14800	< 0.20	< 0.20
		2025-Sep-17	< 3.0	7.3/< 10	1080	1000	0.233	0.206	0.013	< 0.020	2.10	1.95	161	149	0.0920	0.0779	< 0.40	< 0.40	< 1.0	< 4.0	0.144	0.86	< 0.40	< 0.40	12300	12	11800	< 0.20	< 0.20
	W44	2025-Jun-19	< 3.0	< 2.0	1980	2060	0.734	0.759	< 0.0050	< 0.0050	1.29	1.35	104	108	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.720	0.796	< 0.20	< 0.20	0.15	5.2	0.27	< 0.10	< 0.10
		2025-Jul-18	< 3.0	< 3.0/< 2.0	1860	1960	0.684	0.666	< 0.0050	< 0.0050	1.26	1.27	102	105	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.683	0.687	< 0.20	< 0.20	1.01	11	1.65	< 0.10	< 0.10
		2025-Aug-22	< 3.0	< 3.0/< 5.0	2010	1830	0.612	0.569	< 0.0050	< 0.010	1.44	1.07	112	91.8	< 0.0020	0.0021	< 0.20	< 0.20	< 0.50	< 2.0	0.612	0.562	< 0.20	< 0.20	4.32	8.4	2.3	< 0.10	< 0.10
		2025-Sep-16	< 3.0	< 3.0/9.8	1970	2420	0.599	0.685	< 0.0050	< 0.010	1.26	1.51	102	121	0.0023	0.0022	< 0.20	< 0.20	< 0.50	< 2.0	0.542	0.697	< 0.20	< 0.20	1.56	12	3.5	< 0.10	< 0.10
	W45	2025-Jun-19	< 3.0	< 2.0	1720	1780	0.531	0.535	< 0.0050	< 0.0050	1.02	1.02	89.7	93.6	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.293	0.335	< 0.20	< 0.20	0.23	9	0.43	< 0.10	< 0.10
		2025-Jul-18	< 3.0	< 3.0/2.4	1720	1770	0.485	0.506	< 0.0050	< 0.0050	1.08	1.05	97	100	0.0022	0.0021	< 0.20	< 0.20	< 0.50	< 0.50	0.314	0.325	< 0.20	< 0.20	0.90	9.1	0.95	< 0.10	< 0.10
		2025-Aug-22	< 3.0	< 3.0/< 5.0	1910	1760	0.375	0.340	< 0.0050	< 0.010	1.24	0.96	110	90.1	0.0027	0.002	< 0.20	< 0.20	< 0.50	< 2.0	0.363	0.33	< 0.20	< 0.20	3.35	9.9	3.8	< 0.10	< 0.10
		2025-Sep-16	< 3.0	< 3.0/12.5	1860	2200	0.355	0.390	< 0.0050	< 0.010	1.03	1.16	98.4	108	< 0.0020	0.0029	< 0.20	< 0.20	< 0.50	< 2.0	0.311	0.387	< 0.20	< 0.20	1.48	11	2.8	< 0.10	< 0.10
	W46/SW21-4	2025-Jun-20	< 3.0	36.9	726	800	0.217	0.249	< 0.0050	0.013	0.570	0.55	85.9	88.9	0.0092	0.0328	< 0.20	< 0.20	< 0.50	19.8	0.317	0.403	< 0.20	1.85	0.16	2.5	8.3	< 0.10	< 0.10
		2025-Jul-18	< 3.0	46/30.7	997	1250	0.163	0.174	< 0.0050	0.016	0.641	0.70	63.3	65.3	0.0062	0.0195	< 0.20	< 0.20	0.57	56.3	0.287	0.463	0.20	2.58	0.29	2.3	7.1	< 0.10	0.11
		2025-Aug-24	< 3.0	< 3.0/46.9	857	1860	0.134	0.168	< 0.0050	0.026	0.574	0.96	60.1	61.9	0.0044	0.0465	< 0.20	< 0.20	0.56	210	0.277	0.534	< 0.20	9.14	< 0.10	1.7	12.6	< 0.10	0.88
		2025-Sep-17	< 3.0	63/48.9	768	1250	0.129	0.175	< 0.0050	0.021	0.472	0.68	61.3	74.4	0.0060	0.028	< 0.20	< 0.20	< 0.50	83.0	0.238	0.468	< 0.20	4.14	< 0.10	2.3	8.8	< 0.10	< 0.10
TRIBUTARY (ZONE 2)	CC-01	2025-Jun-20	< 3.0	< 2.0	217	215	0.071	0.062	< 0.0050	< 0.0050	0.462	0.450	34.8	35.6	0.0027	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.0424	0.049	< 0.20	< 0.20	42.3	2.7	45.7	< 0.10	< 0.10
	CC-02	2025-Jun-20	< 3.0	2.5	201	203	0.071	0.068	< 0.0050	< 0.0050	0.419	0.417	32.4	33.6	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.0423	0.0485	< 0.20	< 0.20	36.5	2.5	40.5	< 0.10	< 0.10
		2025-Jul-19	< 3.0	< 3.0/2.1	245	255	0.110	0.108	< 0.0050	< 0.0050	0.574	0.567	44.4	45.6	0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.0640	0.0653	< 0.20	< 0.20	47.5	5.7	50.1	< 0.10	< 0.10
		2025-Aug-23	< 3.0	< 5.0/< 3.0	296	280	0.127	0.098	< 0.0050	< 0.010	0.682	0.55	52.7	43.7	0.0026	0.0025	< 0.20	< 0.20	< 0.50	< 2.0	0.0762	0.0706	< 0.20	< 0.20	61.1	3.3	65.4	< 0.10	< 0.10
		2025-Sep-18	< 3.0	< 3.0/7.4	358	340	0.114	0.107	< 0.0050	< 0.010	0.694	0.67	52.3	50.9	0.0032	0.0032	< 0.20	< 0.20	< 0.50	< 2.0	0.0745	0.0769	< 0.20	< 0.20	64.8	5.4	65.9	< 0.10	< 0.10
	CC-04	2025-Jun-20	< 3.0	6.6	121	< 250	0.060	0.069	< 0.0050	< 0.010	0.246	< 0.25	23.1	22.2	< 0.0020	0.0027	< 0.20	< 0.20	< 0.50	< 2.0	0.0290	0.0436	< 0.20	< 0.20	< 0.10	1.6	1.2	< 0.10	< 0.10
		2025-Jul-19	< 3.0	3.4/8.4	175	< 250	0.123	0.151	< 0.0050	0.011	0.458	0.44	36.6	39.1	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 2.0	0.0615	0.0663	< 0.20	0.21	0.43	3.9	1.8	< 0.10	< 0.10
		2025-Aug-23	< 3.0	< 3.0/< 5.0	215	< 250	0.176	0.153	< 0.0050	< 0.010	0.631	0.42	49.8	38.2	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 2.0	0.0877	0.0737	< 0.20	< 0.20	1.11	2.1	< 1.0	< 0.10	< 0.10
Zone 3	SW16-8	2025-Jun-19	< 3.0	5.1	430	492	0.129	0.116	< 0.0050	0.0058	0.505	0.551	37.7	40.3	0.0039	0.0071	< 0.20	< 0.20	< 0.50	13.1	0.0663	0.0908	< 0.20	0.86	4.09	6.7	20.4	< 0.10	< 0.10
		2025-Jul-17	< 3.0	< 3.0/5.2	593	634	0.187	0.183	< 0.0050	< 0.0050	0.602	0.607	49.9	51.1	0.0061	0.0065	< 0.20	< 0.20	< 0.50	5.26	0.126	0.134	< 0.20	0.5	7.08	6.2	15.6	< 0.10	< 0.10
		2025-Aug-21	< 3.0	4.2/6.3	606	590	0.185	0.190	< 0.0050	< 0.010	0.736	0.58	58	48.4	0.0052	0.0071	< 0.20	< 0.20	< 0.50	4.4	0.138	0.134	< 0.20	0.42	6.88	10	12.6	< 0.10	< 0.10
		2025-Sep-16	< 3.0	3.2/9.9	598	650	0.218	0.238	< 0.0050	< 0.010	0.748	0.83	65.5	72.6	0.0044	0.0048	< 0.20	< 0.20	< 0.50	< 2.0	0.152	0.175	< 0.20	< 0.20	7.05	10	9.6	< 0.10	< 0.10
	SW24-4	2025-Jun-19	< 3.0	13.5	1070	990	0.351	0.318	< 0.0050	< 0.010	0.768	0.72	93.4	89.3	0.0103	0.0155	< 0.20	< 0.20	< 0.50	7.0	0.482	0.529	< 0.20	0.63	0.37	5.1	3.8	< 0.10	< 0.10
		2025-Jul-18	5.7	< 3.0/3.2	1480	1510	0.523	0.539	< 0.0050	< 0.0050	2.33	2.31	119	123	0.0134	0.0143	< 0.20	< 0.20	< 0.50	0.63	0.548	0.565	< 0.20	< 0.20	34.2	7.5	36.9	< 0.10	< 0.10
		2025-Aug-21	< 3.0	3.4/5.3	1140	1090	0.251	0.233	< 0.0050	< 0.010	1.54	1.16	82	66.4	0.0095	0.0108	< 0.20	< 0.20	< 0.50	6.6	0.153	0.339	< 0.20	0.5	140	2.1	162	< 0.10	< 0.10
		2025-Sep-17	< 3.0	3.1/9.2	1080	1240	0.257	0.341	< 0.0050	< 0.010	1.24	1.44	72.3	81.1	0.0052	0.0083	< 0.20	< 0.20	< 0.50	5.8	0.399	0.43	< 0.20	0.43	4.17	3.8	8.6	< 0.10	< 0.10
	TUL-09	2025-Jun-19	< 3.0	43.6	717	860	0.205	0.229	< 0.0050	0.019	0.595	0.61	86.7	88.4	0.0111	0.0373	< 0.20	< 0.20	< 0.50	30.0	0.321	0.493	< 0.20	2.51	0.18	2.8	9.8	< 0.10	< 0.10
		2025-Jul-18	< 3.0	45/36.6	998	1360	0.162	0.176	< 0.0050	0.017	0.597	0.73	57.3	60.2	0.0043	0.023	< 0.20	< 0.20	0.65	88.5	0.254	0.443	0.21	4.09	0.19	2.7	7.4	< 0.10	0.23
		2025-Aug-22	< 3.0	49/41.5	882	1830	0.160	0.161	< 0.0050	0.025	0.588	0.99	57.3	60.9	0.0046	0.0417	< 0.20	< 0.20	< 0.50	187	0.277	0.513	< 0.20	8.75	< 0.10	4.9	11.6	< 0.10	0.74
		2025-Sep-15	16	53/42.0	834	1170	0.127	0.163	< 0.0050	0.019	0.508	0.60	57.8	58.3	0.0039	0.0269	< 0.20	< 0.20	< 0.50	98.9	0.190	0.428	< 0.20	4.78	< 0.10	1.7	8.9	< 0.10	< 0.10
TRIBUTARY (ZONE 3)	SW21-5	2025-Jun-19	< 3.0	24.1	167	217	0.112	0.111	< 0.0050	< 0.0050	0.301	0.324	52.9	53.8	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	7.43	0.142	0.176	< 0.20	0.83	< 0.10	2.9	1.04	< 0.10	< 0.10
		2025-Jul-17	< 3.0	14/13.4	155	< 250	0.095	0.111	< 0.0050	< 0.010	0.316	0.30	45	45.4	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	3.7	0.141	0.145	< 0.20	0.5	0.40	1.3	< 1.0	< 0.10	< 0.10
		2025-Aug-21	< 3.0	5.4/6.5	181	< 250	0.131	0.130	< 0.0050	< 0.010	0.376	0.29	54.6	45.8	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	4.1	0.186	0.183	< 0.20	0.42	5.03	3.1	2.6	< 0.10	< 0.10
		2025-Sep-17	< 3.0	8.8/12.4	163	< 250	0.123	0.138	< 0.0050	< 0.010	0.291	0.32	51.8	57.3	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	3.1	0.154	0.191	< 0.20	0.38	0.32	2.3	1.0	< 0.10	< 0.10

Table 3: Metals in Surface Water

			Metals																										
			phosphorus	phosphorus	potassium	potassium	selenium	selenium	silver	silver	sodium	sodium	strontium	strontium	thallium	thallium	tin	tin	titanium	titanium	uranium	uranium	vanadium	vanadium	zinc	zinc (dissolved) BC WQG FW (chronic)	zinc	zirconium	zirconium
		Filtered or Total	T	T	T	T	F	T	F	T	F	T	F	T	F	T	T	T	F	T	F	T	F	T	F		T	F	T
		RDL	3	2 - 100	50 - 1000	50 - 5000	0.04 - 0.8	0.04 - 0.8	0.005 - 0.1	0.005 - 0.2	0.05 - 1	0.05 - 5	0.05 - 1	0.05 - 1	0.002 - 0.04	0.002 - 0.04	0.2 - 4	0.2 - 4	0.5 - 10	0.5 - 40	0.002 - 0.04	0.002 - 0.1	0.2 - 4	0.2 - 4	0.1 - 2		0.1 - 20	0.1 - 2	0.1 - 2
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		BC WQG (Approved) AWF, Long-term	ns	ns	ns	ns	ns	2.0	ns	0.12	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	1.3 - 46		ns	ns	ns
		BC WQG (Approved) AWF, Short-term	not screened																										
		BC WQG (Working) AWF, Long-term	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	1250	ns	ns	0.03	ns	ns	ns	ns	ns	7.5	ns	60	ns	ns	ns	ns	ns
		CCME WQG AWF, Long-term	not screened																										
Zone	**Site**	**Sample Date**																											
Zone 4	SW24-6	2025-Jun-18	< 3.0	15.5	1220	1190	0.232	0.219	< 0.0050	< 0.010	0.896	0.85	57.8	57.5	0.0042	0.0097	< 0.20	< 0.20	< 0.50	33.5	0.313	0.412	0.20	1.64	< 0.10	1.7	4.0	< 0.10	< 0.10
		2025-Jul-17	5.4	42/32.3	1000	1320	0.173	0.197	< 0.0050	0.016	0.647	0.78	59.2	62.8	0.0060	0.0206	< 0.20	< 0.20	0.62	75.4	0.305	0.456	< 0.20	3.24	0.13	2.5	6.2	< 0.10	0.15
		2025-Aug-22	< 3.0	47/39.3	917	1760	0.163	0.151	< 0.0050	0.022	0.682	0.99	58.6	60.5	0.0058	**0.0411**	< 0.20	< 0.20	0.56	183	0.277	0.512	< 0.20	8.35	0.41	2.6	13.3	< 0.10	0.72
		2025-Sep-15	< 3.0	46/38.3	895	1290	0.147	0.174	< 0.0050	0.017	0.654	0.79	55.5	55.4	0.0048	0.0234	< 0.20	< 0.20	< 0.50	109	0.197	0.391	< 0.20	5.45	< 0.10	2.6	10.3	< 0.10	0.12
	SW24-7	2025-Jun-18	< 3.0	21.6	867	940	0.176	0.181	< 0.0050	< 0.010	0.646	0.65	69.1	68.7	0.0061	0.0195	< 0.20	< 0.20	< 0.50	27.6	0.291	0.436	< 0.20	1.44	0.20	2.6	6.2	< 0.10	< 0.10
		2025-Jul-17	< 3.0	42/29.8	973	1270	0.171	0.195	< 0.0050	0.017	0.633	0.72	61.6	64.9	0.0060	0.0211	< 0.20	< 0.20	0.58	74.0	0.318	0.461	< 0.20	3.55	0.26	2.3	8.2	< 0.10	0.13
		2025-Aug-22	< 3.0	49/40.4	864	1780	0.144	0.155	< 0.0050	0.025	0.599	0.95	59.1	61.6	0.0058	**0.0408**	< 0.20	< 0.20	0.60	200	0.287	0.527	< 0.20	8.39	0.18	3	12.4	< 0.10	1.13
		2025-Sep-15	< 3.0	45/32.1	828	1070	0.125	0.163	< 0.0050	0.016	0.530	0.57	56.8	54.8	0.0044	0.0207	< 0.20	< 0.20	< 0.50	69.0	0.168	0.398	< 0.20	3.35	1.03	2	6.7	< 0.10	< 0.10
	SW24-8	2025-Jun-18	< 3.0	3.4	1750	1770	0.366	0.419	< 0.0050	< 0.0050	2.00	2.07	82.3	84.5	0.0020	0.0026	< 0.20	< 0.20	< 0.50	< 0.50	0.282	0.317	< 0.20	< 0.20	0.33	4	0.78	< 0.10	< 0.10
		2025-Jul-17	< 3.0	< 3.0/2.9	1820	1950	0.438	0.474	< 0.0050	< 0.0050	2.41	2.48	95.8	98.0	0.0023	0.002	< 0.20	< 0.20	< 0.50	0.58	0.392	0.409	< 0.20	< 0.20	3.33	5	3.38	< 0.10	< 0.10
		2025-Aug-22	< 3.0	< 3.0/< 5.0	1910	1670	0.384	0.343	< 0.0050	< 0.010	2.47	1.94	106	83.7	0.0031	0.0035	< 0.20	< 0.20	< 0.50	< 2.0	0.405	0.366	< 0.20	< 0.20	0.98	7.8	1.6	< 0.10	< 0.10
		2025-Sep-15	< 3.0	< 3.0/< 5.0	2120	1780	0.412	0.349	< 0.0050	< 0.010	2.63	2.20	111	94.1	0.0033	0.0021	< 0.20	< 0.20	< 0.50	< 2.0	0.460	0.369	< 0.20	< 0.20	1.24	5.9	1.3	< 0.10	< 0.10
	SW24-10	2025-Jun-19	< 3.0	46.8	765	890	0.210	0.239	< 0.0050	0.018	0.620	0.64	81.9	86.7	0.0108	**0.0348**	< 0.20	< 0.20	< 0.50	29.2	0.327	0.503	< 0.20	2.24	0.21	2.4	9.1	< 0.10	< 0.10
		2025-Jul-17	< 3.0	46/39.6	986	1270	0.158	0.164	< 0.0050	0.019	0.608	0.77	61.8	64.6	0.0067	0.0198	< 0.20	< 0.20	0.53	69.4	0.282	0.427	< 0.20	3.27	0.21	2.5	7.1	< 0.10	< 0.10
		2025-Aug-22	< 3.0	46/38.6	884	1710	0.160	0.165	< 0.0050	0.023	0.622	0.93	62.6	63.7	0.0060	**0.0404**	< 0.20	< 0.20	0.58	169	0.310	0.512	< 0.20	7.7	0.17	4	11.0	< 0.10	0.55
		2025-Sep-17	< 3.0	50/40.9	823	1200	0.130	0.152	< 0.0050	0.020	0.518	0.65	56.7	56.9	0.0061	0.0277	< 0.20	< 0.20	< 0.50	106	0.239	0.402	< 0.20	5.18	0.13	3	10.8	< 0.10	< 0.10
	TUL-12	2025-Jun-18	< 3.0	23.0	701	758	0.228	0.251	< 0.0050	< 0.0050	0.747	0.806	75.9	80.5	0.0033	0.0054	< 0.20	< 0.20	< 0.50	11.4	0.328	0.392	< 0.20	1.11	0.86	2.1	4.46	< 0.10	0.16
		2025-Jul-17	< 3.0	21.2/9.7	624	775	0.174	0.183	< 0.0050	< 0.0050	0.596	0.676	61.9	66.3	0.0040	0.0093	< 0.20	< 0.20	< 0.50	31.2	0.248	0.318	< 0.20	1.91	**24.3**	1.6	47.9	< 0.10	0.24
		2025-Aug-22	< 3.0	4.1/5.1	586	520	0.190	0.163	< 0.0050	< 0.010	0.653	0.46	67.7	51.9	0.0042	0.0043	< 0.20	< 0.20	< 0.50	4.8	0.271	0.238	< 0.20	0.41	**18.0**	4.7	20.1	< 0.10	< 0.10
		2025-Sep-17	< 3.0	7.9/7.6	459	430	0.155	0.158	< 0.0050	< 0.010	0.488	0.42	60.6	52.7	0.0023	0.0028	< 0.20	< 0.20	< 0.50	3.4	0.228	0.19	< 0.20	0.35	2.15	2.4	3.8	< 0.10	< 0.10
	W32/TUL-15	2025-Jun-18	< 3.0	16.0	894	940	0.178	0.195	< 0.0050	< 0.010	0.647	0.65	67	67.3	0.0062	0.0145	< 0.20	< 0.20	< 0.50	23.2	0.310	0.407	< 0.20	1.27	0.35	5.4	4.1	< 0.10	< 0.10
		2025-Jul-17	< 3.0	43/29.1	937	1210	0.181	0.173	< 0.0050	0.015	0.628	0.74	61.4	64.8	0.0051	0.0173	< 0.20	< 0.20	0.53	55.2	0.307	0.412	< 0.20	2.49	0.19	3.8	6.2	< 0.10	< 0.10
		2025-Aug-22	52	51/42.0	873	1670	0.148	0.153	< 0.0050	0.024	0.595	0.84	59.8	60.6	0.0052	**0.0425**	< 0.20	< 0.20	0.56	186	0.290	0.508	< 0.20	8.17	0.18	3.3	12.4	< 0.10	0.55
		2025-Sep-15	< 3.0	48/43.0	830	1250	0.123	0.156	< 0.0050	0.020	0.537	0.70	56.7	58.5	0.0052	0.0297	< 0.20	< 0.20	< 0.50	118	0.196	0.399	< 0.20	5.87	0.11	3.2	10.4	< 0.10	< 0.10
TRIBUTARY (ZONE 4)	SW24-5	2025-Jun-20	< 3.0	< 2.0	116	119	< 0.040	0.041	< 0.0050	< 0.0050	0.287	0.291	21	21.6	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	0.0121	0.0244	< 0.20	< 0.20	< 0.10	1.6	< 0.10	< 0.10	< 0.10

Notes:

BC WQG (Approved) AWF, Long-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Long-term (superceded BC WQG applied to dissolved aluminum only)
BC WQG (Approved) AWF, Short-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Short-term (screened for dissolved iron only)
BC WQG (Working) AWF, Long-term	BC Working Water Quality Guidelines, Freshwater Aquatic Life, Long-term
CCME WQG AWF, Long-term	CCME Water Quality Guidelines, Freshwater Aquatic Life, Long-term (screened for dissolved manganese only)
•	samples collected at the same location and date are blind field duplicate/parent pairs
'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	N (Normal)
Result/Result	One or more duplicate results present.
RDL	reported detection limit
m	metres
%	percent
µg/L	microgram per litre
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NA	not applicable
NTU	nephelometric turbidity unit
pH	potential of hydrogen
ns	no standard

Table 4: Inorganics in Surface Water

			Inorganics																				
			pH (field)	temp (field)	pH (lab)	hardness as CaCO3	hardness as CaCO3	ammonia (as N)	cation - anion balance	ion balance	chloride ion	fluoride	hydroxide	kjeldahl nitrogen total	nitrate (as N)	nitrite (as N)	nitrate and nitrite (as N)	nitrogen (total)	orthophosphate (PO4-P)	silicon	silicon	sulphate	sulphur	sulphur
		Filtered or Total	T	T	T	F	T	T	T	F	F	T	F	T	T	T	T	T	T	F	T	F	F	T
		RDL				0.5	0.5	0.015		0.01	1	0.05	1	0.02 - 0.5	0.02 - 0.5	0.005 - 0.13	0.02 - 0.5	20 - 400	0.003	50 - 1000	50 - 1000	1 - 10	3 - 60	3 - 60
		Unit	pH	deg C	pH	mg/L	mg/L	mg/L	%	NA	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	mg/L	mg/L
		BC WQG (Approved) AWF, Long-term	6.5-9.0	10	6.5-9.0	ns	ns	520 - 2000	ns	ns	150	ns	ns	ns	3.0	0.00002 - 0.0002	ns	ns	ns	ns	ns	128 - 429	ns	ns
Zone	**Site**	**Sample Date**																						
Zone 1	TUL-00/W10	2025-Jun-21	8.06	2.7	6.59	34.4	36.1	< 0.015	0.86	0.98	< 1.0	0.057	< 1.0	0.14	0.041	< 0.0050	0.041	182	0.0068	956	2840	15	5.3	4.4
		2025-Jul-20	6.83	3.5	7.11	35.9	40.2	< 0.015	0.76	0.98	< 1.0	< 0.050	< 1.0	< 0.020	0.041	< 0.0050	0.041	41	< 0.0030	855	2450	15	4.6	5.0
		2025-Aug-24	8.03	1.3	6.92	31.2	38.5	< 0.015	5.5	1.1	< 1.0	< 0.050	< 1.0	0.041	0.032	< 0.0050	0.032	73	< 0.0030	761	13100	12	3.3	< 6.0
		2025-Sep-19	7.96	1.1	6.85	27.8	34.2	< 0.015	2.9	0.94	< 1.0	< 0.050	< 1.0	0.024	0.033	< 0.0050	0.033	57	< 0.0030	664	3480	11	3.7	3.5
	SW21-2	2025-Jun-21	7.19	8.2	6.70	26.4	26.8	< 0.015	1.6	1.0	< 1.0	< 0.050	< 1.0	0.061	0.037	< 0.0050	0.037	98	< 0.0030	491	948	8.9	3.2	< 3.0
		2025-Jul-18	6.7	7.9	6.43	23.2	23.8	< 0.015	5.1	0.90	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 20	< 0.0030	362	964	8.1	< 3.0	< 3.0
		2025-Aug-23	7.69	7.8	6.77	20.7	25.1	< 0.015	1.1	1.0	< 1.0	< 0.050	< 1.0	0.072	< 0.020	< 0.0050	< 0.020	72	< 0.0030	297	4630	7.1	< 3.0	< 3.0
		2025-Sep-18	7.04	5.4	6.82	27.2	32.0	0.015	4.3	0.91	< 1.0	< 0.050	< 1.0	0.039	0.034	< 0.0050	0.034	74	< 0.0030	421	1890	10	3.3	3.3
	TUL-03	2025-Jun-23	7.41	1.6	7.36	33.9	34.3	< 0.015	2.2	0.95	< 1.0	0.061	< 1.0	0.043	0.044	< 0.0050	0.044	87	< 0.0030	945	2250	15	5.0	4.6
		2025-Jul-16	7.25	2	7.28	35.7	39.7	< 0.015	2.6	0.95	< 1.0	< 0.050	< 1.0	0.064	0.054	< 0.0050	0.054	118	< 0.0030	856	3140	15	4.3	5.2
		2025-Aug-24	7.97	2.7	6.96	31.6	36.1	0.040	2.0	1.0	< 1.0	< 0.050	< 1.0	< 0.020	0.039	< 0.0050	0.039	43	< 0.0030	776	11500	12	3.4	< 3.0
		2025-Sep-19	7.43	1.1	6.86	28.0	31.9	< 0.015	2.0	0.96	< 1.0	< 0.050	< 1.0	< 0.020	0.027	< 0.0050	0.027	38	< 0.0030	677	2490	11	3.3	3.5
	TUL-05	2025-Jun-21	7.5	2.9	6.75	33.9	36.3	< 0.015	3.0	0.93	< 1.0	0.052	< 1.0	0.036	0.039	< 0.0050	0.039	75	< 0.0030	950	2390	15	5.0	4.7
		2025-Jul-20	6.86	2.4	7.29	34.9	34.1	< 0.015	3.2	0.93	< 1.0	0.059	< 1.0	< 0.020	0.030	< 0.0050	0.030	45	< 0.0030	847	2910	15	4.7	4.1
		2025-Aug-24	7.96	0.8	7.00	31.9	36.6	< 0.015	1.6	1.0	< 1.0	< 0.050	< 1.0	0.20	0.032	< 0.0050	0.032	236	< 0.0030	781	11400	12	3.6	< 3.0
		2025-Sep-19	7.31	1.3	6.77	28.4	32.2	< 0.015	3.8	0.92	< 1.0	< 0.050	< 1.0	< 0.020	0.030	< 0.0050	0.030	47	< 0.0030	694	2380	11	3.9	3.3
	TUL-06/SW16-3	2025-Jun-21	7.51	7.5	6.75	33.3	33.1	< 0.015	1.8	0.96	< 1.0	0.082	< 1.0	0.18	0.048	< 0.0050	0.048	227	< 0.0030	848	1670	13	4.6	4.0
		2025-Jul-18	7.42	7.4	7.04	31.7	34.4	< 0.015	2.0	0.96	< 1.0	< 0.050	< 1.0	< 0.020	0.026	< 0.0050	0.026	20	< 0.0030	730	1670	12	3.8	4.0
		2025-Aug-22	6.19	6.4	6.84	29.4	31.5	< 0.015	0.096	1.0	< 1.0	< 0.050	< 1.0	0.033	0.037	< 0.0050	0.037	70	< 0.0030	692	6490	11	3.3	< 3.0
		2025-Sep-18	6.74	3.9	6.90	29.5	36.0	< 0.015	3.1	0.94	< 1.0	< 0.050	< 1.0	0.025	0.050	< 0.0050	0.050	75	< 0.0030	642	3000	11	3.7	3.3
TRIBUTARY (ZONE 1)	SW16-1	2025-Jun-22	7.4	3.8	6.90	45.2	48.6	< 0.015	2.3	0.95	< 1.0	< 0.050	< 1.0	0.077	0.054	< 0.0050	0.054	131	< 0.0030	1010	2930	17	5.9	5.4
		2025-Jul-19	7.14	5.5	7.26	43.9	45.1	< 0.015	1.2	0.97	< 1.0	0.066	< 1.0	< 0.020	0.035	< 0.0050	0.035	29	< 0.0030	994	2320	18	5.5	5.5
		2025-Sep-18	7.51	3.2	6.82	39.8	44.3	< 0.015	1.3	0.97	< 1.0	0.077	< 1.0	0.026	0.036	< 0.0050	0.036	63	< 0.0030	893	2390	15	4.9	4.7
	W27	2025-Jun-23	6.67	6.2	7.05	48.9	52.4	< 0.015	0.95	0.97	< 1.0	0.12	< 1.0	0.049	0.052	< 0.0050	0.052	101	< 0.0030	908	2540	18	5.9	5.5
		2025-Jul-19	7.48	9.7	7.57	57.6	57.1	< 0.015	2.1	0.95	< 1.0	0.11	< 1.0	< 0.020	0.028	< 0.0050	0.028	29	< 0.0030	934	1170	25	7.6	7.4
		2025-Aug-24	7.76	8.3	7.46	79.1	59.2	< 0.015	2.9	1.1	< 1.0	0.14	< 1.0	0.057	0.067	< 0.0050	0.067	124	< 0.0030	1260	1570	32	10.1	7.2
		2025-Sep-18	7.8	7	7.40	63.8	76.9	< 0.015	1.3	0.97	< 1.0	0.14	< 1.0	0.048	0.057	< 0.0050	0.057	105	< 0.0030	1240	4000	23	7.8	7.6
	SW24-2	2025-Jun-23	7.38	6.9	7.15	39.9	42.6	< 0.015	3.7	0.92	< 1.0	< 0.050	< 1.0	0.079	0.065	< 0.0050	0.065	143	< 0.0030	797	875	2.1	< 3.0	< 3.0
		2025-Jul-19	7.42	10.1	7.88	51.0	51.8	< 0.015	1.8	0.96	< 1.0	< 0.050	< 1.0	0.032	0.063	< 0.0050	0.063	95	< 0.0030	1090	988	3.2	< 3.0	< 3.0
		2025-Aug-23	8	9.3	7.62	65.6	54.0	< 0.015	5.0	1.1	< 1.0	< 0.050	< 1.0	< 0.020	0.199	< 0.0050	0.199	214	< 0.0030	1500	1130	4.1	< 3.0	< 3.0
		2025-Sep-18	7.93	8.4	7.77	59.3	52.8	< 0.015	1.2	0.97	< 1.0	< 0.050	< 1.0	0.053	0.211	< 0.0050	0.211	264	< 0.0030	1410	1270	5.0	< 3.0	< 3.0

Table 4: Inorganics in Surface Water

								Inorganics																	
			pH (field)	temp (field)	pH (lab)	hardness as CaCO3	hardness as CaCO3	ammonia (as N)	cation - anion balance	ion balance	chloride ion	fluoride	hydroxide	kjeldahl nitrogen total	nitrate (as N)	nitrite (as N)	nitrate and nitrite (as N)	nitrogen (total)	orthophosphate (PO4-P)	silicon	silicon	sulphate	sulphur	sulphur
		Filtered or Total	T	T	T	F	T	T	T	F	F	F	F	T	T	T	T	T	T	F	T	F	F	T
		RDL				0.5	0.5	0.015		0.01	1	0.05	1	0.02 - 0.5	0.02 - 0.5	0.005 - 0.13	0.02 - 0.5	20 - 400	0.003	50 - 1000	50 - 1000	1 - 10	3 - 60	3 - 60
		Unit	pH	deg C	pH	mg/L	mg/L	mg/L	%	NA	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	mg/L	mg/L
		BC WQG (Approved) AWF, Long-term	6.5-9.0	10	6.5-9.0	ns	ns	520 - 2000	ns	ns	150	ns	ns	ns	3.0	0.00002 - 0.0002	ns	ns	ns	ns	ns	128 - 429	ns	ns
Zone	**Site**	**Sample Date**																						
Effluent	5200 LEVEL ADIT	2025-Jun-21	2.77	6.4	3.06	414	386	0.14	5.1	1.1	1.2	1.1	< 1.0	< 0.40	< 0.20	< 0.050	< 0.20	< 400	0.011	9470	9020	720	308	269
		2025-Jul-18	2.83	6.4	2.98	352	422	< 0.015	7.2	0.86	1.1	1.1	< 1.0	< 0.50	< 0.50	< 0.13	< 0.50	< 20	0.012	7820	9650	780	236	292
		2025-Aug-23	3	6.3	2.97	414	335	0.20	2.7	1.1	< 1.0	1.1	< 1.0	< 0.50	< 0.50	< 0.13	< 0.50	< 20	0.010	9970	7250	730	254	211
		2025-Sep-18	3.09	6.4	2.98	409	419	0.17	1.9	1.0	< 1.0	1.2	< 1.0	0.21	< 0.020	0.0980	< 0.020	209	0.0062	9360	9640	740	281	300
	5400 LEVEL ADIT	2025-Jun-21	3.55	6	3.89	135	126	0.046	2.7	1.0	1.6	0.36	< 1.0	0.093	0.147	< 0.0050	0.147	240	< 0.0030	4170	3890	210	80	73
		2025-Jul-19	5.43	6.5	4.42	128	132	0.16	3.1	0.94	7.4	0.40	< 1.0	0.15	0.105	< 0.0050	0.105	251	< 0.0030	3570	3850	200	60	66
		2025-Aug-23	4.12	6.4	4.60	144	125	0.030	0.11	1.0	10	0.38	< 1.0	0.23	0.082	< 0.0050	0.082	310	0.0045	4460	3550	210	64	58
		2025-Sep-18	4.76	6.6	4.41	143	138	< 0.015	3.3	1.1	11	0.49	< 1.0	0.16	0.062	< 0.0050	0.062	223	< 0.0030	4050	4110	190	74	72
	5400 CLEAN WATER PIPE	2025-Jun-21	6.49	7.3	6.30	155	156	< 0.015	0.71	1.0	32	0.53	< 1.0	0.069	0.243	< 0.0050	0.243	311	< 0.0030	3850	4500	110	42.9	43.4
	5900 LEVEL ADIT	2025-Jun-20	7.58	4.2	7.06	143	132	< 0.015	2.6	1.0	< 1.0	0.10	< 1.0	0.11	0.426	< 0.0050	0.426	534	< 0.0030	3360	4520	79	29.4	28.5
		2025-Jul-19	6.88	3.9	7.52	143	146	< 0.015	0.60	0.98	< 1.0	0.096	< 1.0	< 0.020	0.345	< 0.0050	0.345	352	< 0.0030	3390	3460	93	30.6	29.6
		2025-Aug-23	7.54	4	7.57	152	129	< 0.015	3.1	1.1	< 1.0	0.11	< 1.0	0.053	0.334	< 0.0050	0.334	387	< 0.0030	3590	3080	91	29.1	25.6
	SE2	2025-Jun-21	3.26	8.4	3.64	173	160	< 0.015	2.8	1.1	6.1	0.45	< 1.0	0.078	0.082	< 0.0050	0.082	161	0.0043	6640	6150	260	99	93
		2025-Jul-18	3.33	15.2	3.86	159	169	< 0.015	2.5	0.95	7.3	0.47	< 1.0	0.18	0.052	< 0.0050	0.052	228	< 0.0030	5620	5980	260	86	84
		2025-Aug-23	3.41	7.3	3.58	186	157	0.022	0.66	1.0	6.7	0.56	< 1.0	0.063	0.033	< 0.0050	0.033	96	< 0.0030	6930	5180	290	96	82
		2025-Sep-18	3.57	8.3	3.63	185	180	< 0.015	0.94	1.0	6.9	0.56	< 1.0	0.18	0.034	< 0.0050	0.034	209	< 0.0030	7010	6920	280	104	97
	WTP POND	2025-Jun-21	7.34	16.8	7.31	252	219	< 0.015	2.0	1.0	< 1.0	0.094	< 1.0	0.078	< 0.020	< 0.0050	< 0.020	78	< 0.0030	3730	3320	180	68.8	57.8
		2025-Jul-18	7.83	20.2	7.72	252	249	< 0.015	0.11	1.0	< 1.0	0.098	< 1.0	0.069	< 0.020	< 0.0050	< 0.020	69	< 0.0030	3390	3440	190	68.9	66.7
		2025-Aug-21	8.29	15.7	7.50	251	197	< 0.015	4.1	1.1	< 1.0	0.11	< 1.0	0.15	< 0.020	< 0.0050	< 0.020	150	< 0.0030	3240	2510	170	59.4	46.4
		2025-Sep-18	8.04	12.7	7.54	221	196	< 0.015	0.60	0.99	< 1.0	0.11	< 1.0	0.16	< 0.020	< 0.0050	< 0.020	160	0.0070	2740	2380	170	58.7	52.4
	6400 LEVEL ADIT	2025-Aug-23	7.84	5.3	7.75	66.7	61.9	< 0.015	2.2	1.0	< 1.0	< 0.050	< 1.0	0.043	0.460	< 0.0050	0.460	503	< 0.0030	1950	1770	11	< 3.0	< 3.0
Zone 2	SW24-1	2025-Jun-19	6.94	6.2	6.79	35.1	31.7	< 0.015	2.1	0.96	< 1.0	< 0.050	< 1.0	0.047	0.055	< 0.0050	0.055	101	< 0.0030	888	1300	14	4.7	4.3
		2025-Jul-18	7.31	3	7.37	39.3	43.1	< 0.015	1.6	0.96	< 1.0	0.050	< 1.0	< 0.020	0.058	< 0.0050	0.058	32	< 0.0030	991	2750	16	5.1	4.9
		2025-Aug-24	7.88	1.2	6.98	32.7	34.0	< 0.015	0.71	1.0	< 1.0	< 0.050	< 1.0	< 0.020	0.035	< 0.0050	0.035	45	< 0.0030	809	6320	12	3.8	< 3.0
		2025-Sep-17	7.34	2.2	6.86	27.7	34.4	< 0.015	2.8	0.94	< 1.0	0.093	< 1.0	< 0.020	0.025	< 0.0050	0.025	39	< 0.0030	673	3390	11	3.6	3.2
	SW24-11	2025-Jun-19	7.83	6.4	7.09	51.7	49.2	< 0.015	3.4	0.93	< 1.0	0.099	< 1.0	0.062	0.073	< 0.0050	0.073	135	< 0.0030	1060	1400	21	7.4	6.8
		2025-Jul-18	7.35	2.5	7.33	39.2	42.4	< 0.015	0.53	0.98	< 1.0	0.058	< 1.0	< 0.020	0.040	< 0.0050	0.040	45	< 0.0030	861	2460	16	5.0	4.8
		2025-Aug-22	6.5	2.7	7.06	38.3	37.7	< 0.015	3.2	1.1	< 1.0	< 0.050	< 1.0	0.096	0.042	< 0.0050	0.042	137	0.0038	870	5140	14	3.8	3.1
		2025-Sep-17	7.28	3.1	6.92	32.6	36.0	< 0.015	2.9	0.94	< 1.0	< 0.050	< 1.0	< 0.020	0.031	< 0.0050	0.031	44	< 0.0030	732	2110	13	4.6	4.3
	W11	2025-Jun-20	6.29	15.1	6.23	118	113	< 0.015	5.8	1.1	1.5	0.18	< 1.0	0.090	0.135	< 0.0050	0.135	225	< 0.0030	3620	3880	96	39.6	38.5
		2025-Jul-18	6.41	15.8	6.69	78.2	76.3	< 0.015	0.99	0.97	1.0	0.15	< 1.0	< 0.020	0.050	< 0.0050	0.050	64	< 0.0030	2140	2400	68	21.7	21.3
		2025-Aug-21	5.06	14	5.80	115	107	< 0.015	1.6	1.0	1.6	0.17	< 1.0	0.065	0.059	< 0.0050	0.059	124	< 0.0030	3960	3810	130	42.5	40.0
		2025-Sep-17	5.9	8.1	6.06	108	96.0	< 0.015	6.7	1.1	1.9	0.11	< 1.0	0.049	0.047	< 0.0050	0.047	97	< 0.0030	3300	3200	100	41.9	38.7
	W44	2025-Jun-19	7.42	9.3	7.51	84.6	88.4	< 0.015	1.6	0.97	< 1.0	0.064	< 1.0	0.074	0.064	< 0.0050	0.064	138	< 0.0030	1830	1880	26	9.1	8.7
		2025-Jul-18	6.46	6.6	7.94	85.0	84.2	< 0.015	1.4	0.97	< 1.0	0.060	< 1.0	0.023	0.040	< 0.0050	0.040	63	< 0.0030	1740	1840	26	8.1	7.8
		2025-Aug-22	6.7	8.1	7.58	93.5	79.3	< 0.015	2.9	1.1	< 1.0	0.066	< 1.0	0.024	0.062	< 0.0050	0.062	86	< 0.0030	2270	1790	26	7.8	6.1
		2025-Sep-16	6.26	8	7.64	82.0	93.3	< 0.015	1.0	0.98	< 1.0	0.075	< 1.0	< 0.020	0.026	< 0.0050	0.026	41	< 0.0030	1930	2270	24	8.0	9.4
	W45	2025-Jun-19	6.62	6.7	7.38	76.0	79.2	< 0.015	1.0	0.98	< 1.0	0.052	< 1.0	0.063	0.090	< 0.0050	0.090	153	< 0.0030	1960	1990	21	6.7	7.0
		2025-Jul-18	6.65	9.7	8.02	83.5	82.0	< 0.015	0.35	0.99	< 1.0	< 0.050	< 1.0	< 0.020	0.048	< 0.0050	0.048	65	< 0.0030	2030	1990	23	7.5	7.0
		2025-Aug-22	6.21	9.2	7.78	91.2	78.6	< 0.015	3.1	1.1	< 1.0	0.051	< 1.0	0.054	0.036	< 0.0050	0.036	90	< 0.0030	2410	1990	23	7.4	6.0
		2025-Sep-16	6.32	7.4	7.79	78.0	85.2	< 0.015	2.7	0.94	< 1.0	0.062	< 1.0	0.076	0.028	< 0.0050	0.028	103	< 0.0030	2090	2290	21	6.8	7.5
	W46/SW21-4	2025-Jun-20	7.61	8.4	7.05	49.7	48.4	< 0.015	2.8	0.94	< 1.0	0.092	< 1.0	0.047	0.065	< 0.0050	0.065	112	< 0.0030	1030	1840	21	6.7	6.3
		2025-Jul-18	7.54	2.5	7.04	39.3	42.3	< 0.015	3.1	0.93	< 1.0	0.061	< 1.0	< 0.020	0.056	< 0.0050	0.056	41	< 0.0030	898	2370	16	5.1	5.0
		2025-Aug-24	7.84	1.5	7.03	36.1	39.8	< 0.015	3.5	1.1	< 1.0	0.052	< 1.0	0.049	0.041	< 0.0050	0.041	90	< 0.0030	842	8750	14	3.9	3.2
		2025-Sep-17	7.53	2.8	6.98	34.6	41.9	< 0.015	1.9	0.96	< 1.0	< 0.050	< 1.0	< 0.020	0.038	< 0.0050	0.038	42	< 0.0030	752	2940	13	3.9	4.6
TRIBUTARY (ZONE 2)	CC-01	2025-Jun-20	7.7	9.3	7.07	43.2	44.3	< 0.015	1.1	0.96	< 1.0	< 0.050	< 1.0	0.066	0.222	< 0.0050	0.222	288	< 0.0030	1310	1290	3.7	< 3.0	< 3.0
	CC-02	2025-Jun-20	7.84	10.1	7.14	42.2	43.5	< 0.015	2.3	0.94	< 1.0	< 0.050	< 1.0	0.092	0.209	< 0.0050	0.209	301	< 0.0030	1260	1250	3.5	< 3.0	< 3.0
		2025-Jul-19	7.01	8.1	7.81	53.9	55.6	< 0.015	3.2	0.93	< 1.0	< 0.050	< 1.0	0.065	0.187	< 0.0050	0.187	252	< 0.0030	1380	1450	6.5	< 3.0	< 3.0
		2025-Aug-23	7.88	8.3	7.41	63.2	59.5	< 0.015	3.2	1.1	< 1.0	< 0.050	< 1.0	0.049	0.258	< 0.0050	0.258	307	0.0031	1910	1650	8.3	< 3.0	< 3.0
		2025-Sep-18	6.87	7.7	7.58	60.7	57.6	< 0.015	1.3	0.96	< 1.0	0.074	< 1.0	0.030	0.233	< 0.0050	0.233	263	< 0.0030	1770	1740	8.4	3.2	< 3.0
	CC-04	2025-Jun-20	7.84	8.8	6.99	34.1	29.6	< 0.015	0.69	0.98	< 1.0	< 0.050	< 1.0	0.11	0.070	< 0.0050	0.070	179	< 0.0030	629	595	1.7	< 3.0	< 3.0
		2025-Jul-19	7.21	8.2	7.76	51.5	54.6	< 0.015	0.38	0.99	< 1.0	< 0.050	< 1.0	< 0.020	0.060	< 0.0050	0.060	71	0.0035	832	905	6.9	< 3.0	< 3.0
		2025-Aug-23	8	10.6	7.45	68.2	55.7	< 0.015	6.1	1.1	< 1.0	< 0.050	< 1.0	0.025	0.144	< 0.0050	0.144	169	< 0.0030	1320	988	11	< 3.0	< 3.0

Table 4: Inorganics in Surface Water

			Inorganics																				
			pH (field)	temp (field)	pH (lab)	hardness as CaCO3	hardness as CaCO3	ammonia (as N)	cation - anion balance	ion balance	chloride ion	fluoride	hydroxide	kjeldahl nitrogen total	nitrate (as N)	nitrite (as N)	nitrate and nitrite (as N)	nitrogen (total)	orthophosphate (PO4-P)	silicon	silicon	sulphate	sulphur	sulphur
		Filtered or Total	T	T	T	F	T	T	T	F	F	F	F	T	T	T	T	T	F	F	T	F	F	T
		RDL				0.5	0.5	0.015		0.01	1	0.05	1	0.02 - 0.5	0.02 - 0.5	0.005 - 0.13	0.02 - 0.5	20 - 400	0.003	50 - 1000	50 - 1000	1 - 10	3 - 60	3 - 60
		Unit	pH	deg C	pH	mg/L	mg/L	mg/L	%	NA	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	µg/L	µg/L	mg/L	mg/L	mg/L
		BC WQG (Approved) AWF, Long-term	6.5-9.0	10	6.5-9.0	ns	ns	520 - 2000	ns	ns	150	ns	ns	ns	3.0	0.00002 - 0.0002	ns	ns	ns	ns	ns	128 - 429	ns	ns
Zone	**Site**	**Sample Date**																						
Zone 3	SW16-8	2025-Jun-19	6.98	5.8	7.39	47.8	50.7	< 0.015	4.6	0.89	< 1.0	< 0.050	< 1.0	0.11	0.331	< 0.0050	0.331	439	< 0.0030	1900	2440	4.7	< 3.0	< 3.0
		2025-Jul-17	7.16	12.4	7.64	58.8	57.2	< 0.015	3.1	1.0	< 1.0	< 0.050	< 1.0	0.035	0.248	< 0.0050	0.248	283	< 0.0030	2040	2230	7.0	< 3.0	< 3.0
		2025-Aug-21	6.68	8.4	7.67	68.8	61.1	< 0.015	3.3	1.1	< 1.0	< 0.050	< 1.0	0.025	0.315	< 0.0050	0.315	340	0.0032	2390	2180	7.5	< 3.0	< 3.0
		2025-Sep-16	6.39	8.9	7.96	80.5	83.9	< 0.015	1.1	0.97	< 1.0	< 0.050	< 1.0	0.036	0.330	< 0.0050	0.330	366	< 0.0030	2310	2530	9.0	< 3.0	< 3.0
	SW24-4	2025-Jun-19	6.92	6.5	7.28	58.1	56.1	< 0.015	1.4	0.97	< 1.0	0.093	< 1.0	0.066	0.068	< 0.0050	0.068	134	< 0.0030	1170	1320	22	7.3	7.0
		2025-Jul-18	6.8	6.8	7.79	77.7	75.9	< 0.015	3.5	1.1	3.5	0.064	< 1.0	< 0.020	0.075	< 0.0050	0.075	89	< 0.0030	1400	1540	24	7.5	7.2
		2025-Aug-21	7.77	6.1	7.39	53.3	45.1	< 0.015	2.4	0.95	< 1.0	0.085	< 1.0	0.050	0.082	< 0.0050	0.082	132	< 0.0030	1380	1480	21	5.7	5.3
		2025-Sep-17	7.14	4	7.30	42.4	49.8	< 0.015	4.3	0.92	< 1.0	< 0.050	< 1.0	< 0.020	0.039	< 0.0050	0.039	45	0.0033	1110	1560	16	5.0	6.0
	TUL-09	2025-Jun-19	7.58	3.7	6.88	48.5	52.3	< 0.015	1.8	0.96	< 1.0	0.094	< 1.0	0.060	0.065	< 0.0050	0.065	125	< 0.0030	1020	2170	20	6.8	6.7
		2025-Jul-18	7.33	2.3	7.22	37.6	41.1	< 0.015	0.79	0.98	< 1.0	< 0.050	< 1.0	< 0.020	0.058	< 0.0050	0.058	44	< 0.0030	843	3290	15	4.7	4.3
		2025-Aug-22	6.58	3.4	7.11	36.6	40.4	< 0.015	3.1	1.1	< 1.0	0.052	< 1.0	0.021	0.035	< 0.0050	0.035	56	< 0.0030	863	8410	14	3.9	3.4
		2025-Sep-15	7.78	2.3	6.93	32.0	36.0	< 0.015	5.2	0.90	< 1.0	0.054	< 1.0	< 0.020	0.029	< 0.0050	0.029	42	< 0.0030	719	3090	13	4.8	3.7
TRIBUTARY (ZONE 3)	SW21-5	2025-Jun-19	7.21	5.8	7.03	37.5	39.7	< 0.015	0.16	0.99	< 1.0	< 0.050	< 1.0	0.10	0.040	< 0.0050	0.040	141	< 0.0030	480	857	5.1	< 3.0	< 3.0
		2025-Jul-17	7.96	10.2	7.03	33.0	33.2	< 0.015	1.4	0.97	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 20	< 0.0030	440	648	4.2	< 3.0	< 3.0
		2025-Aug-21	7.06	9.3	7.41	42.4	37.4	< 0.015	4.6	1.1	< 1.0	< 0.050	< 1.0	0.037	< 0.020	< 0.0050	< 0.020	37	< 0.0030	620	693	5.6	< 3.0	< 3.0
		2025-Sep-17	7.48	7.9	7.18	34.7	38.5	< 0.015	4.8	0.91	< 1.0	< 0.050	< 1.0	0.022	< 0.020	< 0.0050	< 0.020	22	< 0.0030	435	619	6.4	< 3.0	< 3.0
Zone 4	SW24-6	2025-Jun-18	7.91	6.4	7.01	41.3	40.5	< 0.015	1.8	0.96	< 1.0	< 0.050	< 1.0	0.052	0.060	< 0.0050	0.060	112	< 0.0030	1110	1890	16	5.1	4.7
		2025-Jul-17	7.49	2.4	7.31	38.3	42.6	< 0.015	1.1	0.97	< 1.0	< 0.050	< 1.0	< 0.020	0.044	< 0.0050	0.044	38	< 0.0030	869	2940	15	5.2	4.7
		2025-Aug-22	7.35	2.4	7.07	37.7	39.6	< 0.015	3.3	1.1	< 1.0	0.052	< 1.0	0.024	0.039	< 0.0050	0.039	63	< 0.0030	908	7990	14	4.2	3.4
		2025-Sep-15	7.29	2.6	7.02	34.2	37.5	< 0.015	3.0	0.94	< 1.0	0.059	< 1.0	0.028	0.031	< 0.0050	0.031	50	< 0.0030	792	3570	13	4.1	3.8
	SW24-7	2025-Jun-18	7.45	4	6.98	43.0	43.6	< 0.015	3.0	0.93	< 1.0	0.065	< 1.0	0.061	0.057	< 0.0050	0.057	117	< 0.0030	1000	1730	18	6.0	5.5
		2025-Jul-17	7.61	3.9	7.32	38.4	43.5	< 0.015	2.2	0.95	< 1.0	0.051	< 1.0	< 0.020	0.047	< 0.0050	0.047	20	< 0.0030	871	3140	15	4.9	4.9
		2025-Aug-22	7.2	2.6	7.14	37.3	41.0	< 0.015	0.31	1.0	< 1.0	0.053	< 1.0	0.028	0.041	< 0.0050	0.041	69	< 0.0030	887	9410	14	3.8	3.4
		2025-Sep-15	7.53	2.7	6.94	33.3	35.1	< 0.015	4.3	0.92	< 1.0	< 0.050	< 1.0	< 0.020	0.028	< 0.0050	0.028	39	< 0.0030	748	2460	13	4.1	3.7
	SW24-8	2025-Jun-18	7.35	9.4	7.55	64.2	63.8	< 0.015	0.42	0.97	< 1.0	0.060	< 1.0	0.10	0.325	< 0.0050	0.325	425	< 0.0030	2040	2090	16	5.1	5.5
		2025-Jul-17	7.31	12.7	7.93	77.5	77.4	< 0.015	0.16	1.0	1.1	0.060	< 1.0	0.026	0.139	< 0.0050	0.139	165	< 0.0030	2150	2200	21	6.5	6.6
		2025-Aug-22	6.64	10.8	7.72	79.3	69.0	< 0.015	0.60	0.98	1.1	0.056	< 1.0	0.10	0.085	< 0.0050	0.085	185	< 0.0030	2300	1930	21	7.0	5.2
		2025-Sep-15	7	9.7	7.81	80.6	70.8	< 0.015	2.7	0.94	1.9	< 0.050	< 1.0	0.024	0.096	< 0.0050	0.096	120	< 0.0030	2120	1910	24	7.5	6.5
	SW24-10	2025-Jun-19	7.77	3.6	7.12	48.5	51.7	< 0.015	2.9	0.94	< 1.0	0.090	< 1.0	0.063	0.068	< 0.0050	0.068	131	< 0.0030	1020	2080	20	6.8	6.2
		2025-Jul-17	7.4	4.3	7.37	39.0	40.7	< 0.015	0.50	0.98	< 1.0	0.058	< 1.0	< 0.020	0.044	< 0.0050	0.044	42	< 0.0030	880	2630	16	5.3	4.7
		2025-Aug-22	6.84	3.2	7.20	40.2	40.2	< 0.015	2.9	1.1	< 1.0	< 0.050	< 1.0	0.039	0.033	< 0.0050	0.033	73	< 0.0030	937	7310	14	4.4	3.6
		2025-Sep-17	7.04	2.1	7.03	32.5	36.0	< 0.015	4.1	0.92	< 1.0	< 0.050	< 1.0	0.026	0.035	< 0.0050	0.035	61	< 0.0030	714	3510	13	4.1	3.6
	TUL-12	2025-Jun-18	8.06	7.6	7.32	52.9	58.1	< 0.015	2.8	0.94	< 1.0	< 0.050	< 1.0	0.056	0.076	< 0.0050	0.076	133	< 0.0030	959	1650	16	5.3	5.2
		2025-Jul-17	8.25	10.1	7.53	43.2	45.9	< 0.015	1.7	0.96	< 1.0	< 0.050	< 1.0	< 0.020	0.022	< 0.0050	0.022	23	< 0.0030	827	1900	12	4.0	3.6
		2025-Aug-22	6.65	9.3	7.43	51.7	40.8	< 0.015	5.5	1.1	< 1.0	< 0.050	< 1.0	< 0.020	0.037	< 0.0050	0.037	49	< 0.0030	980	883	12	3.6	< 3.0
		2025-Sep-17	7.38	7.3	7.32	41.6	38.2	< 0.015	2.6	0.95	< 1.0	0.056	< 1.0	< 0.020	0.029	< 0.0050	0.029	32	< 0.0030	682	805	9.4	3.1	< 3.0
	W32/TUL-15	2025-Jun-18	6.39	5	7.04	41.7	41.4	< 0.015	2.8	0.94	< 1.0	0.066	< 1.0	0.12	0.056	< 0.0050	0.056	173	< 0.0030	1000	1570	18	6.1	5.5
		2025-Jul-17	6.94	5.6	7.38	39.5	42.5	< 0.015	1.5	0.97	< 1.0	< 0.050	< 1.0	< 0.020	0.041	< 0.0050	0.041	30	< 0.0030	874	2190	15	4.6	4.8
		2025-Aug-22	7.05	2.9	7.10	37.5	39.5	< 0.015	0.081	0.99	< 1.0	0.053	< 1.0	< 0.020	0.031	< 0.0050	0.031	47	< 0.0030	878	7430	14	4.0	3.3
		2025-Sep-15	7.03	2.6	7.03	33.2	37.6	< 0.015	4.3	0.92	< 1.0	< 0.050	< 1.0	< 0.020	0.026	< 0.0050	0.026	37	< 0.0030	732	3870	13	4.1	3.4
TRIBUTARY (ZONE 4)	SW24-5	2025-Jun-20	7.29	5.2	6.72	18.0	19.3	< 0.015	4.0	0.92	< 1.0	< 0.050	< 1.0	0.071	< 0.020	< 0.0050	< 0.020	71	< 0.0030	747	785	< 1.0	< 3.0	< 3.0

Notes:

- samples collected at the same location and date are blind field duplicate/parent pairs

'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
RDL	reported detection limit
%	percent
µg/L	microgram per litre
deg C	degree Celsius
mg/L	milligram per litre
NA	not applicable
pH	potential of hydrogen
ns	no standard
BC WQG (Approved) AWF, Long-term	BC Approved Water Quality Guidelines, Freshwater Aquatic Life, Long-term (superceded BC WQG applied to dissolved aluminum only)
BC WQG (Working) AWF, Long-term	BC Working Water Quality Guidelines, Freshwater Aquatic Life, Long-term

YSI Calibration Sheet

Project Name: 234.030071.00002 Tulsequah Chief Mine Surface Water Quality	Sonde Serial Number: 22K105022
General Calibration Notes:	Additional Notes:
Ensure all sensors are clean before calibration. Use fresh calibration standards within their expiration dates. Record pre- and post-calibration values to assess sensor drift. Document any issues encountered during calibration.	Calibration performed by Hoskins included. Turbidity calibrations to be performed by Hoskins only.

Calibration Log

Date	Dissolved Oxygen			Conductivity (µS/cm)		pH			Turbidity (NTU)		Technician Initials
	Pre-calibration reading	Post-calibration reading	Standard used (mg/L or %)	Pre-calibration reading	Post-calibration reading	Pre-calibration reading	Post-calibration reading	Standard Used	Pre-calibration reading	Post-calibration reading	
2025-06-10	94.9%	99.7%	%	1403	1413	3.99 6.99	4.00 7.02	pH 4 pH 7	0.6	0	Hoskins
2025-06-20	100.1%	-	%	1439	1413	4.21 7.24	4.00 7.04	pH 4 pH 7	-	-	DG Temp: 15.2 °C
2025-06-21	101.0%	-	%	1414	-	7.04	-	pH 7	-	-	DG Temp: 16.1 °C
2025-06-22 (AM)	102.0%	99.0%	%	1414	-	4.07 7.13 9.97	4.00 7.05 10.12	pH 4 pH 7 pH 10	-	-	ER Temp: 15.3 °C
2025-06-22 (PM)	100.80%	98.60%	%	1410	1413	4.03 7.00	4.00 7.01	pH 4 pH 7	-	-	BC Temp: 19.4 - 24.4 °C

YSI Calibration Sheet

Project Name: 234.030071.00002 Tulsequah Chief Mine Surface Water Quality	Sonde Serial Number: 22A107653
General Calibration Notes:	Additional Notes:
Ensure all sensors are clean before calibration. Use fresh calibration standards within their expiration dates. Record pre- and post-calibration values to assess sensor drift. Document any issues encountered during calibration.	Calibration performed by Hoskins included. Turbidity calibrations to be performed by Hoskins only.

Calibration Log

Date	Dissolved Oxygen			Conductivity (µS/cm)		pH			Turbidity (NTU)		Technician Initials
	Pre-calibration reading	Post-calibration reading	Standard used (mg/L or %)	Pre-calibration reading	Post-calibration reading	Pre-calibration reading	Post-calibration reading	Standard Used	Pre-calibration reading	Post-calibration reading	
2025-07-11	103.2%	100.7%	%	1466	1413	3.36 6.40	4.00 7.02	pH 4 pH 7	0.37	0	Hoskins
2025-07-16	98.3%	99.0%	%	1426	1413	3.99 7.29 9.50	4.00 7.00 10.02	pH4 pH7 pH10	-	-	BC Temp: 19.9 °C
2025-07-18 (AM)	98.7%	99.0%	%			4.47 7.10 9.64	4.00 7.00 10.04	pH4 pH7 pH10	-	-	BC Temp: 14.4 °C
2025-07-18 (PM)	98.1%	98.8%	%	1415	not calibrated	3.78 6.93 9.64	4.00 7.02 10.05	pH4 pH7 pH10	-	-	DG Temp: 22.6 °C
2025-07-20 (AM)	98.8%	99.5%	%	1420	1413	4.10 7.16 10.30	4.00 7.05 10.12	pH4 pH7 pH10	-	-	DG Temp: 14.0 °C

YSI Calibration Sheet

Project Name: 234.030071.00002 Tulsequah Chief Mine Surface Water Quality	Sonde Serial Number: 22A107653
General Calibration Notes:	Additional Notes:
Ensure all sensors are clean before calibration. Use fresh calibration standards within their expiration dates. Record pre- and post-calibration values to assess sensor drift. Document any issues encountered during calibration.	Calibration performed by Hoskins included. Turbidity calibrations to be performed by Hoskins only.

Calibration Log

Date	Dissolved Oxygen			Conductivity (µS/cm)		pH			Turbidity (NTU)		Technician Initials
	Pre-calibration reading	Post-calibration reading	Standard used (mg/L or %)	Pre-calibration reading	Post-calibration reading	Pre-calibration reading	Post-calibration reading	Standard Used	Pre-calibration reading	Post-calibration reading	
2025-08-15	102.2%	99.5%	%	1476	1413	3.48 6.68	4.00 7.04	pH 4 pH 7	0.31	0	Hoskins
2025-08-21	100.7%	99.8%	%	1417	1413	3.88 7.03 9.79	4.00 7.03 10.08	pH4 pH7 pH10	-	-	ER Temp: 18°C
2025-08-22	100.3%	99.5%	%	1404	1413	3.92 6.94 9.83	4.00 7.03 10.08	pH4 pH7 pH10	-	-	DG Temp: 18°C
2025-08-23	99.2%	99.3%	%	1417	1413	4.03 7.04 9.85	4.00 7.02 10.05	pH4 pH7 pH10	-	-	DG Temp: 20.5 °C

Project Name: 234.030071.00002 Tulsequah Chief Mine Surface Water Quality	Sonde Serial Number:24A100378
General Calibration Notes:	Additional Notes:
Ensure all sensors are clean before calibration. Use fresh calibration standards within their expiration dates. Record pre- and post-calibration values to assess sensor drift. Document any issues encountered during calibration.	Calibration performed by Hoskins included. Turbidity calibrations to be performed by Hoskins only.

Calibration Log

Date	Dissolved Oxygen			Conductivity (µS/cm)		pH			Turbidity (NTU)		Technician Initials
	Pre-calibration reading	Post-calibration reading	Standard used (mg/L or %)	Pre-calibration reading	Post-calibration reading	Pre-calibration reading	Post-calibration reading	Standard Used	Pre-calibration reading	Post-calibration reading	
2025-09-11	97.8%	100.0%	%	1399	1413	4.03 7.15	4.00 7.02	pH4 pH7	~	~	Hoskin
2025-09-15	90.6%	101.1%	%	1414	1413	4.14 6.98 10.32	4.00 7.00 10.00	pH4 pH7 pH10	~	~	BC
2025-09-17	90.9%	100.4%	%	1414	1413	4.23 7.29 10.26	4.00 7.06 10.17	pH4 pH7 pH10	~	~	ER
2025-09-17	94.7%	100.4%	%	1382	1413	3.93 6.85 9.90	4.00 7.01 10.06	pH4 pH7 pH10	~	~	BC
2025-09-19	91.20%	98.80%	%	1407	1413	4.4 7.34	4.00 4.06	pH4 pH7	~	~	ER

Table 5: Field and Trip Blanks QAQC

				Carbon	General							Inorganics																	
				Dissolved organic carbon	Electrical conductivity (lab)	Hardness (as CaCO3)	Hardness (as CaCO3)	pH (lab)	Total dissolved solids	Total Kjeldahl Nitrogen	Total suspended solids	Alkalinity (bicarbonate)	Alkalinity (carbonate)	Alkalinity (P)	Alkalinity (total as CaCO3)	Ammonia (as N)	Chloride ion	Fluoride	Hydroxide	Nitrate (as N)	Nitrate and nitrite (as N)	Nitrite (as N)	Nitrogen (total)	Orthophosphate (as PO4)	Sulphate	Sulphur	Sulphur
			Filtered or Total	F	T	F	T	T	T	T	T	T	T	T	T	T	F	F	T	T	T	T	T	T	F	F	T
			RDL	0.5	2	0.5	0.5		1	0.02	1	1	1	1	1	0.015	1	0.05	1	0.02	0.02	0.005	0.02	0.003	1	3	3
			Result Unit	mg/L	uS/cm	mg/L	mg/L	pH Units	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
Location Groups	Sample Name	Sample Date	Sample Type																										
Zone 1	25-07-FB04	2025-Jul-20	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.66	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-08-FB04	2025-Aug-24	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.48	< 1.0	0.02	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	0.02	0.0031	< 1.0	< 3.0	< 3.0
	25-09-FB03	2025-Sep-19	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.75	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
Effluent	25-06-FB03	2025-Jun-21	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.71	< 1.0	0.034	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	0.034	< 0.0030	< 1.0	< 3.0	< 3.0
	25-07-FB03	2025-Jul-18	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.70	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-08-FB03	2025-Aug-23	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.47	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-09-FB04	2025-Sep-18	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.72	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
Zone 2	25-06-FB02	2025-Jun-19	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.80	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
Zone 3	25-09-FB02	2025-Sep-17	FB	< 0.50	< 2.0	< 0.50	< 0.50	6.03	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
Zone 4	25-06-FB01	2025-Jun-18	FB	< 0.50	< 2.0	< 0.50	< 0.50	6.18	< 1.0	0.04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	0.04	< 0.0030	< 1.0	< 3.0	< 3.0
	25-07-FB02	2025-Jul-17	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.88	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-08-FB02	2025-Aug-22	FB	< 0.50	< 2.0	< 0.50	< 0.50	5.18	< 1.0	0.036	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	0.036	< 0.0030	< 1.0	< 3.0	< 3.0
Trip Blanks	25-06-TB02	2025-Jun-24	TB	< 0.50	< 2.0	< 0.50	< 0.50	5.78	< 1.0	0.023	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	0.023	< 0.0030	< 1.0	< 3.0	< 3.0
	25-06-TB01	2025-Jun-25	TB	< 0.50	< 2.0	< 0.50	< 0.50	5.65	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-07-TB02	2025-Jul-21	TB	< 0.50	< 2.0	< 0.50	< 0.50	5.57	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-07-TB01	2025-Jul-22	TB	< 0.50	< 2.0	< 0.50	< 0.50	5.70	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-08-TB01	2025-Aug-25	TB	< 0.50	< 2.0	< 0.50	< 0.50	5.93	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-08-TB02		TB	< 0.50	< 2.0	< 0.50	< 0.50	5.87	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-09-TB01	2025-Sep-19	TB	< 0.50	< 2.0	< 0.50	< 0.50	6.42	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0
	25-09-TB02	2025-Sep-20	TB	< 0.50	< 2.0	< 0.50	< 0.50	5.82	< 1.0	< 0.020	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.015	< 1.0	< 0.050	< 1.0	< 0.020	< 0.020	< 0.0050	< 0.020	< 0.0030	< 1.0	< 3.0	< 3.0

Notes:

•	samples collected at the same location and date are blind field duplicate/parent pairs
'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	FB (Field Blank)
Sample Type	TB (Trip Blank)
RDL	reported detection limit
m	metres
%	percent
µg/L	microgram per litre
mg/L	milligram per litre
NA	not applicable
pH Units	potential of hydrogen units
uS/cm	microsiemens per centimetre
	> 5x RDL

Table 5: Field and Trip Blanks QAQC

| | | | | Metals | | | |

Table 5: Field and Trip Blanks QAQC

				Metals																																Data Quality Summary		
				Nickel	Nickel	Phosphorus	Phosphorus	Phosphorus	Phosphorus	Potassium	Potassium	Selenium	Selenium	Silicon	Silicon	Silver	Silver	Sodium	Sodium	Strontium	Strontium	Thallium	Thallium	Tin	Tin	Titanium	Titanium	Uranium	Uranium	Vanadium	Vanadium	Zinc	Zinc	Zirconium	Zirconium			
	Filtered or Total			F	T	F	F	T	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T			
	RDL			0.02	0.02 - 0.1	0.003	2	0.003	2 - 5	0.05	0.05 - 0.25	0.04	0.04	50	50	0.005	0.005 - 0.01	0.05	0.05 - 0.25	0.05	0.05	0.002	0.002	0.2	0.2	0.5	0.5 - 2	0.002	0.002 - 0.005	0.2	0.2	0.1	0.1 - 1	0.1	0.1			
	Result Unit			µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	Count	Number of Detects > 5x RDL	% of Detects > 5x RDL
Location Groups	Sample Name	Sample Date	Sample Type																																			
Zone 1	25-07-FB04	2025-Jul-20	FB	0.035	< 0.020	< 0.0030	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	0.14	< 0.10	< 0.10	< 0.10	95	0	0.0%
	25-08-FB04	2025-Aug-24	FB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	-	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	0.058	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	0.16	< 0.10	< 0.10	94	1	1.1%
	25-09-FB03	2025-Sep-19	FB	< 0.020	< 0.10	< 0.0030	-	< 0.0030	< 5.0	< 0.050	< 0.25	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.010	< 0.050	< 0.25	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 2.0	< 0.0020	< 0.0050	< 0.20	< 0.20	< 0.10	< 1.0	< 0.10	< 0.10	95	0	0.0%
Effluent	25-06-FB03	2025-Jun-21	FB	< 0.020	0.021	< 0.0030	-	-	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	0.0021	< 0.20	< 0.20	< 0.10	0.12	< 0.10	< 0.10	94	0	0.0%
	25-07-FB03	2025-Jul-18	FB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	0.002	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	1	1.1%
	25-08-FB03	2025-Aug-23	FB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	-	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	0.065	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	94	0	0.0%
	25-09-FB04	2025-Sep-18	FB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	0	0.0%
Zone 2	25-06-FB02	2025-Jun-19	FB	< 0.020	< 0.020	< 0.0030	-	-	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	0.1	< 0.10	< 0.10	94	0	0.0%
Zone 3	25-09-FB02	2025-Sep-17	FB	< 0.020	< 0.10	< 0.0030	-	< 0.0030	< 5.0	< 0.050	< 0.25	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.010	< 0.050	< 0.25	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 2.0	< 0.0020	< 0.0050	< 0.20	< 0.20	< 0.10	< 1.0	< 0.10	< 0.10	95	0	0.0%
Zone 4	25-06-FB01	2025-Jun-18	FB	< 0.020	< 0.020	< 0.0030	-	-	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	0.061	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	0.0021	< 0.20	< 0.20	< 0.10	0.11	< 0.10	< 0.10	94	0	0.0%
	25-07-FB02	2025-Jul-17	FB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	11.6	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	0.0031	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	1	1.1%
	25-08-FB02	2025-Aug-22	FB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	-	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	0.055	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	94	0	0.0%
																																				Field Blanks Total		
Trip Blanks	25-06-TB02	2025-Jun-24	TB	< 0.020	< 0.020	< 0.0030	< 2.0	-	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	0	0.0%
	25-06-TB01	2025-Jun-25	TB	< 0.020	< 0.020	< 0.0030	-	-	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	94	0	0.0%
	25-07-TB02	2025-Jul-21	TB	< 0.020	< 0.020	0.0034	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	0	0.0%
	25-07-TB01	2025-Jul-22	TB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	0	0.0%
	25-08-TB01	2025-Aug-25	TB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	0	0.0%
	25-08-TB02		TB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	-	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	0.055	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	94	0	0.0%
	25-09-TB01	2025-Sep-19	TB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	0	0.0%
	25-09-TB02	2025-Sep-20	TB	< 0.020	< 0.020	< 0.0030	-	< 0.0030	< 2.0	< 0.050	< 0.050	< 0.040	< 0.040	< 50	< 50	< 0.0050	< 0.0050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.50	< 0.50	< 0.0020	< 0.0020	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	95	0	0.0%
																																				Trip Blanks Total		

Notes:

•	samples collected at the same location and date are blind field duplicate/parent pairs
'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	FB (Field Blank)
Sample Type	TB (Trip Blank)
RDL	reported detection limit
m	metres
%	percent
µg/L	microgram per litre
mg/L	milligram per litre
NA	not applicable
pH Units	potential of hydrogen units
uS/cm	microsiemens per centimetre
	> 5x RDL

Table 6: Surface Water QAQC - Dissolved:Total Metals Ratios

						D:T Ratio																														
						Parameters	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Titanium	Uranium	Vanadium	Zinc
Location Groups	Sample Location	Sample Date	Count	D:T Ratio >1.30	D:T Ratio >1.30 (%)																																	
Zone 1	TUL-00/W10	2025-Jun-21	23	0	0%		0.04	0.94	0.38	0.38	NC	NC	0.16	1.02	NC	0.05	0.05	0.00	0.01	NC	0.72	0.09	NC	1.06	0.11	NC	NC	0.88	0.99	0.34	NC	0.93	0.96	0.23	NC	0.65	0.07	0.02
	TUL-00/W10	2025-Jul-20	24	0	0%		0.05	0.91	0.39	0.37	NC	NC	0.15	0.95	NC	0.04	0.04	0.00	0.01	0.40	0.69	0.09	NC	0.97	0.11	NC	NC	0.74	0.89	0.35	NC	0.86	0.88	0.18	0.01	0.58	0.07	NC
	TUL-00/W10	2025-Aug-24	24	0	0%		0.01	0.42	0.12	0.14	NC	NC	0.12	1.07	NC	0.01	0.02	0.00	0.01	NC	0.35	0.02	NC	1.04	0.03	NC	NC	0.38	0.80	0.06	NC	0.42	0.83	0.08	0.00	0.41	0.01	0.01
	TUL-00/W10	2025-Sep-19	21	0	0%		0.02	0.63	0.23	0.25	NC	NC	0.10	0.90	NC	0.01	0.02	0.00	0.01	NC	0.54	0.02	NC	0.99	0.03	NC	NC	0.60	0.87	0.19	NC	0.68	0.86	0.17	NC	0.39	NC	NC
	SW21-2	2025-Jun-21	21	0	0%		0.03	0.94	0.38	0.70	NC	NC	0.42	1.01	NC	0.10	0.11	0.02	0.02	NC	0.91	0.27	NC	1.06	0.37	NC	NC	0.94	0.99	0.52	NC	NC	1.00	0.53	NC	0.39	NC	0.06
	SW21-2	2025-Jul-18	21	1	5%		0.02	1.36	0.40	0.75	NC	NC	0.41	1.03	NC	0.10	0.08	0.01	0.03	NC	0.83	0.30	NC	0.94	0.32	NC	NC	0.90	0.93	0.38	NC	NC	0.98	0.44	NC	0.32	NC	0.07
	SW21-2	2025-Aug-23	21	0	0%		0.01	0.41	0.07	0.36	NC	NC	0.25	1.08	NC	0.04	0.02	0.00	0.01	NC	0.44	0.14	NC	0.96	0.12	NC	NC	0.58	0.84	0.06	NC	NC	1.09	0.20	NC	0.18	NC	0.03
	SW21-2	2025-Sep-18	20	0	0%		0.01	0.61	0.27	0.47	NC	NC	0.30	0.92	NC	0.02	0.06	0.00	0.01	NC	0.68	0.10	NC	0.91	0.19	NC	NC	0.73	0.86	0.22	NC	NC	0.95	0.42	NC	0.25	NC	NC
	TUL-03	2025-Jun-23	23	0	0%		0.04	0.94	0.46	0.46	NC	NC	0.23	1.04	NC	0.07	0.05	0.00	0.01	NC	0.79	0.12	NC	1.05	0.15	NC	NC	0.91	1.03	0.42	NC	0.95	0.97	0.29	NC	0.65	0.10	0.01
	TUL-03	2025-Jul-16	23	0	0%		0.03	0.94	0.38	0.38	NC	NC	0.21	0.95	NC	0.04	0.04	0.00	0.01	NC	0.70	0.10	NC	0.99	0.09	NC	NC	0.73	0.86	0.27	NC	0.83	0.92	0.22	0.01	0.53	0.06	NC
	TUL-03	2025-Aug-24	23	0	0%		0.01	0.46	0.14	0.16	NC	NC	0.11	1.10	NC	0.02	0.02	0.00	0.01	NC	0.42	0.03	NC	1.12	0.04	NC	NC	0.42	0.89	0.07	NC	0.49	0.90	0.07	0.00	0.42	NC	0.01
	TUL-03	2025-Sep-19	21	0	0%		0.03	0.72	0.31	0.35	NC	NC	0.17	0.93	NC	0.03	0.03	0.00	0.01	NC	0.68	0.05	NC	0.99	0.06	NC	NC	0.72	0.76	0.27	NC	0.82	0.91	0.20	NC	0.37	NC	NC
	TUL-06/SW16-3	2025-Jun-21	22	0	0%		0.05	1.08	0.51	0.62	NC	NC	0.38	1.04	NC	0.09	0.08	0.01	0.03	NC	0.91	0.20	NC	1.07	0.25	NC	NC	0.94	1.09	0.51	NC	1.03	1.02	0.43	NC	0.48	NC	0.04
	TUL-06/SW16-3	2025-Jul-18	22	0	0%		0.05	0.95	0.51	0.60	NC	NC	0.41	0.96	NC	0.09	0.07	0.01	0.02	NC	0.81	0.22	NC	1.02	0.25	NC	NC	0.85	0.99	0.44	NC	0.89	0.94	0.37	NC	0.58	NC	0.08
	TUL-06/SW16-3	2025-Aug-22	23	0	0%		0.01	0.57	0.18	0.32	NC	NC	0.30	1.13	NC	0.04	0.06	0.00	0.01	NC	0.54	0.09	NC	1.10	0.10	NC	NC	0.57	0.98	0.11	NC	0.65	1.04	0.14	0.00	0.25	NC	0.04
	TUL-06/SW16-3	2025-Sep-18	21	0	0%		0.01	0.63	0.24	0.36	NC	NC	0.15	0.93	NC	0.01	0.03	0.00	0.01	NC	0.56	0.04	NC	0.96	0.12	NC	NC	0.68	0.77	0.21	NC	0.82	0.95	0.25	NC	0.26	NC	NC
	TUL-05	2025-Jun-21	23	0	0%		0.05	0.97	0.42	0.44	NC	NC	0.26	0.97	NC	0.06	0.06	0.00	0.02	NC	0.78	0.12	NC	1.00	0.14	NC	NC	0.87	0.97	0.40	NC	0.95	0.93	0.24	NC	0.59	0.09	0.04
	TUL-05	2025-Jul-20	24	0	0%		0.04	0.94	0.48	0.43	NC	NC	0.23	1.08	NC	0.04	0.05	0.01	0.01	NC	0.83	0.09	NC	1.13	0.13	NC	NC	0.83	1.02	0.29	NC	0.94	1.03	0.20	0.01	0.72	0.06	0.02
	TUL-05	2025-Aug-24	25	0	0%		0.01	0.54	0.13	0.17	NC	NC	0.18	1.09	NC	0.02	0.02	0.00	0.01	NC	0.42	0.03	NC	1.07	0.04	0.95	0.00	0.44	0.91	0.07	NC	0.48	0.90	0.10	0.00	0.45	NC	0.01
	TUL-05	2025-Sep-19	21	0	0%		0.04	0.80	0.34	0.35	NC	NC	0.16	0.93	NC	0.03	0.03	0.00	0.01	NC	0.70	0.05	NC	0.98	0.07	NC	NC	0.72	0.83	0.29	NC	0.84	0.91	0.18	NC	0.35	NC	NC
TRIBUTARY (ZONE 1)	W27	2025-Jun-23	23	0	0%		0.02	0.55	0.10	0.37	NC	NC	0.12	0.98	NC	0.04	0.04	0.01	0.01	0.40	0.70	0.13	NC	0.92	0.10	NC	NC	0.53	0.67	0.36	NC	0.92	0.97	0.14	NC	0.64	NC	0.01
	W27	2025-Jul-19	23	0	0%		0.06	0.96	0.64	0.93	NC	NC	0.80	1.00	NC	0.17	0.25	0.02	0.03	0.96	1.06	0.60	NC	1.00	0.63	NC	NC	0.96	1.05	0.80	NC	1.08	1.03	0.52	NC	0.81	NC	1.70
	W27	2025-Aug-24	22	2	9%		0.03	1.04	0.46	0.92	NC	NC	0.65	1.35	NC	0.24	0.17	0.01	NC	0.84	1.27	0.72	NC	1.22	0.53	NC	NC	0.92	1.18	0.80	NC	1.38	1.38	0.55	NC	1.21	NC	0.08
	W27	2025-Sep-18	22	0	0%		0.02	0.52	0.12	0.29	NC	NC	0.10	0.90	NC	0.02	0.07	0.00	0.01	0.34	0.54	0.09	NC	0.85	0.11	NC	NC	0.46	0.59	0.31	NC	0.85	0.92	0.09	NC	0.70	NC	NC
	SW16-1	2025-Jun-22	23	0	0%		0.02	0.54	0.09	0.41	NC	NC	0.12	0.99	NC	0.02	0.03	0.00	0.01	0.30	0.66	0.06	NC	0.96	0.07	NC	NC	0.76	0.68	0.34	NC	0.92	0.95	0.18	NC	0.54	NC	0.01
	SW16-1	2025-Jul-19	23	0	0%		0.04	0.96	0.52	0.51	NC	NC	0.36	1.01	NC	0.08	0.08	0.01	0.02	0.51	0.80	0.19	NC	1.05	0.21	NC	NC	0.82	0.97	0.43	NC	0.88	0.99	0.37	NC	0.73	NC	0.04
	SW16-1	2025-Sep-18	22	0	0%		0.03	0.74	0.29	0.41	NC	NC	0.17	0.93	NC	0.04	0.07	0.01	0.01	0.50	0.74	0.14	NC	0.98	0.14	NC	NC	0.71	0.79	0.37	NC	0.86	0.94	0.21	NC	0.55	NC	NC
	SW24-2	2025-Jun-23	19	0	0%		0.18	0.97	0.84	0.90	NC	NC	NC	0.94	NC	0.19	0.54	0.02	0.21	NC	0.88	0.06	NC	1.10	0.24	NC	NC	0.97	1.20	0.91	NC	0.95	0.95	NC	NC	0.86	NC	NC
	SW24-2	2025-Jul-19	16	0	0%		0.64	0.99	0.99	1.00	NC	NC	NC	0.99	NC	NC	0.90	NC	NC	NC	1.04	0.13	NC	1.00	1.39	NC	NC	0.99	0.90	1.10	NC	1.05	0.96	NC	NC	0.83	NC	NC
	SW24-2	2025-Aug-23	16	1	6%		0.84	1.18	1.10	1.19	NC	NC	NC	1.22	NC	0.92	1.04	NC	NC	NC	1.30	0.14	NC	1.11	NC	NC	NC	1.18	0.98	1.33	NC	1.43	1.26	NC	NC	1.15	NC	NC
	SW24-2	2025-Sep-18	16	0	0%		0.91	1.22	1.15	1.20	NC	NC	NC	1.12	NC	NC	1.16	NC	NC	NC	1.20	0.28	NC	1.18	NC	NC	NC	1.19	1.22	1.11	NC	1.23	1.20	NC	NC	1.19	NC	0.61
Effluent	6400 LEVEL ADIT	2025-Aug-23	22	0	0%		0.60	1.04	0.21	1.09	NC	NC	0.80	1.07	NC	0.96	0.24	0.14	0.09	NC	1.16	0.96	NC	1.03	0.83	NC	NC	1.05	1.08	1.10	NC	1.28	1.15	1.19	NC	0.93	NC	0.70
	5900 LEVEL ADIT	2025-Jun-20	23	0	0%		0.01	0.75	0.01	0.65	NC	NC	0.60	1.08	NC	0.77	0.02	0.00	0.00	1.04	1.08	0.60	NC	0.87	0.86	NC	NC	1.06	0.83	0.74	NC	1.08	0.97	0.99	NC	0.25	NC	0.54
	5900 LEVEL ADIT	2025-Jul-19	23	0	0%		0.16	1.01	0.11	1.06	NC	NC	0.96	0.98	NC	1.02	0.15	0.00	0.01	1.18	1.06	1.04	NC	0.92	1.04	NC	NC	1.05	0.98	0.98	NC	1.05	1.02	1.21	NC	0.72	NC	0.92
	5900 LEVEL ADIT	2025-Aug-23	23	0	0%		0.10	1.06	0.08	0.96	NC	NC	0.94	1.18	NC	1.07	0.16	0.02	0.01	0.88	1.26	1.05	NC	1.07	1.07	NC	NC	1.12	1.04	1.17	NC	1.42	1.22	1.13	NC	0.77	NC	0.86
	5400 LEVEL ADIT	2025-Jun-21	20	0	0%		0.99	0.05	0.00	0.92	1.54	NC	1.07	1.07	NC	1.09	1.02	0.01	0.87	1.28	1.11	1.08	NC	NC	1.13	NC	NC	NC	NC	1.07	NC	NC	1.06	1.12	NC	0.97	NC	1.03
	5400 LEVEL ADIT	2025-Jul-19	21	0	0%		0.80	0.11	0.01	0.91	NC	NC	0.99	0.96	NC	1.03	0.99	0.01	0.64	1.00	0.98	0.98	NC	NC	1.13	NC	NC	NC	NC	0.93	0.59	0.93	0.98	1.15	NC	0.91	NC	0.99
	5400 LEVEL ADIT	2025-Aug-23	23	0	0%		1.26	0.05	0.00	0.64	0.91	NC	1.04	1.14	NC	1.04	1.03	0.00	0.64	1.09	1.24	1.04	NC	NC	0.94	NC	NC	NC	1.04	1.26	0.20	1.33	1.18	1.03	NC	1.05	NC	0.99
	5400 LEVEL ADIT	2025-Sep-18	23	0	0%		0.72	0.08	0.00	1.00	0.98	NC	1.01	1.02	NC	1.02	1.07	0.00	0.50	1.24	1.09	1.02	NC	NC	0.93	NC	NC	NC	0.67	0.99	0.56	1.03	1.05	0.98	NC	0.78	NC	1.00
	5400 CLEAN WATER PIPE	2025-Jun-21	24	0	0%		0.02	0.71	0.01	0.92	NC	0.92	0.98	0.99	NC	1.06	0.29	0.00	0.02	1.05	1.03	1.00	NC	0.76	1.06	NC	NC	1.04	1.02	0.86	NC	1.01	0.99	1.00	NC	0.04	NC	0.93
	5200 LEVEL ADIT	2025-Jun-21	21	1	5%		1.01	0.20	0.12	0.93	1.35	NC	1.05	1.08	1.06	1.13	1.00	0.80	1.07	1.21	1.05	1.09	NC	NC	1.08	NC	NC	NC	NC	1.05	NC	NC	1.02	1.20	NC	0.98	NC	1.01
	5200 LEVEL ADIT	2025-Jul-18	21	0	0%		0.82	NC	0.02	0.80	1.47	NC	0.80	0.83	0.82	0.84	0.82	0.41	0.81	0.87	0.83	0.82	NC	NC	0.81	0.67	NC	NC	NC	0.81	NC	NC	0.82	0.81	NC	0.81	NC	0.81
	5200 LEVEL ADIT	2025-Aug-23	21	1	5%		1.53	NC	0.06	1.24	1.37	NC	1.10	1.22	1.07	1.09	1.07	0.72	1.15	1.14	1.29	1.08	NC	NC	0.97	0.73	NC	NC	NC	1.38	NC	NC	1.26	1.18	NC	1.18	NC	1.06
	5200 LEVEL ADIT	2025-Sep-18	21	0	0%		1.01	NC	0.05	1.01	0.60	NC	0.95	0.96	1.04	0.93	1.03	0.58	0.98	1.18	1.04	0.97	NC	NC	0.94	0.84	NC	NC	NC	0.97	NC	NC	1.00	0.93	NC	0.99	NC	0.91
	SE2	2025-Jun-21	22	0	0%		1.02	0.11	0.01	0.98	0.94	NC	1.05	1.09	NC	1.15	1.04	0.14	1.01	1.19	1.06	1.10	NC	NC	1.08	NC	NC	NC	NC	1.08	0.56	1.10	1.05	1.01	NC	0.95	NC	1.04
	SE2	2025-Jul-18	23	0	0%		1.04	0.10	0.01	0.75	1.11	NC	0.99	0.92	NC	0.93	0.91	0.05	0.89	1.22	1.05	1.00	0.19	NC	0.93	NC	NC	NC	NC	0.94	0.61	1.08	1.00	0.97	NC	0.85	NC	1.02
	SE2	2025-Aug-23	21	4	19%		1.49	0.07	NC	0.95	1.48	NC	1.08	1.16	NC	1.08	1.04	0.09	1.04	1.27	1.31	1.09	NC	NC	1.05	NC	NC	NC	NC	1.34	0.52	1.40	1.25	1.10	NC	1.10	NC	1.06
	SE2	2025-Sep-18	21	0	0%		1.05	0.08	0.01	0.94	0.97	NC	0.99	1.03	NC	1.01	1.08	0.06	0.95	1.25	1.03	1.02	NC	NC	0.99	NC	NC	NC	NC	1.01	NC	1.07	1.01	1.04	NC	0.99	NC	0.99
	WTP POND	2025-Jun-21	24	1	4%		0.59	1.14	0.59	1.13	NC	NC	1.11	1.15	NC	1.21	0.57	0.26	0.28	1.20	1.12	1.11	NC	1.16	1.14	NC	0.00	1.26	1.05	1.12	NC	1.13	1.27	1.41	NC	1.04	NC	1.06
	WTP POND	2025-Jul-18	25	0	0%		0.40	1.01	0.53	1.02	NC	NC	0.86	1.01	NC	1.00	0.35	0.13	0.14	1.04	1.02	0.95	NC	1.02	0.95	0.28	0.00	0.98	0.89	0.99	NC	1.05	0.98	1.05	NC	0.89	NC	0.55
	WTP POND	2025-Aug-21	25	4	16%		0.41	1.21	0.78	1.30	NC	NC	1.01	1.26	NC	1.07	0.40	0.06	0.11	1.04	1.39	0.99	NC	1.31	0.97	0.34	0.00	1.18	0.98	1.29	NC	1.46	1.37	1.22	NC	1.11	NC	0.67
	WTP POND	2025-Sep-18	25	1	4%		0.26	1.14	0.72	1.14	NC	NC	1.01	1.12	NC	1.00	0.35	0.06	0.04	1.32	1.17	0.91	NC	1.06	0.88	0.36	0.00	1.13	1.04	1.15	NC	1.14	1.17	0.97	NC	1.00	NC	0.84
Zone 2	W45	2025-Jun-19	19	0	0%		0.56	1.04	1.00	0.95	NC	NC	0.75	0.97	NC	NC	0.93	NC	NC	1.03	0.92	0.90	NC	0.94	1.01	NC	NC	0.97	0.99	0.98	NC	1.00	0.96	NC	NC	0.87	NC	0.53
	W45	2025-Jul-18	22	0	0%		0.70	1.16	0.95	0.99	NC	NC	0.80	1.02	NC	0.54	0.82	0.30	NC	1.44	1.02	0.74	NC	0.98	0.99	NC	NC	0.97	0.96	1.02	NC	1.03	0.97	1.05	NC	0.97	NC	0.95
	W45	2025-Aug-22	21	0	0%		NC	1.17	0.97	1.17	NC	NC	0.90	1.15	NC	0.97	0.88	0.41	NC	1.13	1.21	0.83	NC	1.09	1.04	NC	NC	1.09	1.10	1.21	NC	1.29	1.22	1.35	NC	1.10	NC	0.88
	W45	2025-Sep-16	20	0	0%		0.43	0.87	0.87	0.90	NC	NC	NC	0.92	NC	0.74	0.64	0.29	NC	0.93	0.90	0.77	NC	0.91	0.91	NC	NC	0.85	0.91	0.91	NC	0.89	0.91	NC	NC	0.80	NC	0.53
	W44	2025-Jun-19	20	0	0%		0.47	0.98	1.00	0.95	NC	NC	NC	0.96	0.93	0.79	0.89	NC	NC	1.07	0.95	0.69	NC	0.99	0.88	NC	NC	0.96	0.97	0.97	NC	0.96	0.96	NC	NC	0.90	NC	0.56
	W44	2025-Jul-18	20	0	0%		0.64	1.07	0.94	0.98	NC	NC	0.89	1.01	0.94	NC	0.87	NC	NC	1.46	1.00	0.46	NC	1.00	1.03	NC	NC	0.95	1.03	0.95	NC	0.99	0.97	NC	NC	0.99	NC	0.61
	W44	2025-Aug-22	20	2	10%		0.67	1.12	1.01	1.18	NC	NC	1.22	1.17	1.00	NC	0.82	NC	NC	0.94	1.22	0.70	NC	1.05	1.05	NC	NC	1.10	1.08	1.27	NC	1.35	1.22	NC	NC	1.09	NC	1.88
	W44	2025-Sep-16	22	0	0%		0.38	0.88	0.83	0.87	NC	NC	0.80	0.89	0.71	0.34	0.58	NC	NC	0.90	0.83	0.43	NC	0.87	0.84	NC	NC	0.81	0.87	0.85	NC	0.83	0.84	1.05	NC	0.78	NC	0.45
	W46/SW21-4	2025-Jun-20	23	0	0%		0.05	0.76	0.18	0.55	NC	NC	0.18	1.05	NC	0.04	0.07	0.01	0.02	0.52	0.89	0.10	NC	0.99	0.13	NC	NC	0.91	0.87	0.56	NC	1.04	0.97	0.28	NC	0.79	NC	0.02
	W46/SW21-4	2025-Jul-18	25	0	0%		0.05	0.94	0.58	0.48	NC	NC	0.29	0.96	NC	0.06	0.07	0.01	0.02	0.56	0.82	0.14	NC	1.03	0.15	NC	NC	0.80	0.94	0.38	NC	0.92	0.97	0.32	0.01	0.62	0.08	0.04
	W46/SW21-4	2025-Aug-24	23	0	0%		0.01	0.65	0.19	0.22	NC	NC	0.12	1.04	NC	0.02	0.02	0.00	0.01	0.20	0.52	0.05	NC	1.06	0.05	NC	NC	0.46	0.80	0.10	NC	0.60	0.97	0.09	0.00	0.52	NC	NC
	W46/SW21-4	2025-Sep-17	21	0	0%		0.03	0.75	0.31	0.33	NC	NC	0.15	0.89	NC	0.02	0.03	0.00	0.01	NC	0.59	0.06	NC	0.90	0.07	NC	NC	0.61	0.74	0.26	NC	0.69	0.82	0.21	NC	0.51	NC	NC
	SW24-1	2025-Jun-19	22	0	0%		0.08	1.00	0.72	0.78	NC	NC	0.45	1.12	NC	0.14	0.14	0.01	0.04	NC	1.05	0.28	NC	1.09	0.36	NC	NC	1.07	1.12	0.68	NC	1.11	1.04	0.51	NC	0.85	NC	0.05
	SW24-1	2025-Jul-18	21	0	0%		0.04	0.96	0.48	0.52	NC	NC	0.21	0.94	NC	0.05	0.05	0.01	0.01	NC	0.79	0.08	NC	1.00	0.13	NC	NC	0.81	0.93	0.36	NC	0.89	0.93	0.25	NC	0.67	NC	NC
	SW24-1	2025-Aug-24	25	0	0%		0.02	0.70	0.20	0.25	NC	NC	0.20	1.10	NC	0.02	0.03	0.00	0.01	NC	0.58	0.04	NC	1.14	0.05	0.08	0.00	0.59	1.01	0.13	NC	0.77	1.05	0.13	0.00	0.53	NC	0.02
	SW24-1	2025-Sep-17	21	0	0%		0.02	0.53	0.28	0.27	NC	NC	0.11	0.91	NC	0.01	0.02	0.00	0.01	NC	0.50	0.03	NC	0.93	0.04	NC	NC	0.61	0.78	0.20	NC	0.67	0.84	0.12	NC	0.31	NC	NC
	W11	2025-Jun-20	24	0	0%		0.01	0.61	0.01	0.98	0.36	NC	1.00	1.03	NC	1.05	0.63	NC	0.11	1.05	1.08	0.98	NC	0.77	0.98	NC	NC	1.02	0.91	0.93	0.48	1.06	1.01	0.94	NC	0.03	NC	0.95
	W11	2025-Jul-18	23	0	0%		0.02	0.61	0.01	1.02	NC	NC	1.03	1.02	NC	0.97	0.31	NC	0.06	1.13	1.06	0.98	NC	0.95	0.96	NC	NC	1.03	0.89	0.89	0.55	0.99	1.04	1.04	NC	0.02	NC	1.02
	W11	2025-Aug-21	24	0	0%		0.09	0.32	NC	0.97	0.47	NC	1.01	1.07	NC	0.98	0.85	0.03	0.37	0.98	1.16	0.95	NC	0.26	0.93	NC	NC	0.98	0.79	1.04	0.40	1.26	1.15	0.99	NC	0.40	NC	0.95
	W11	2025-Sep-17	22	0	0%		0.01	0.79	0.03	1.08	NC	NC	1.09	1.14	NC	1.07	0.91	NC	0.35	1.06	1.09	1.07	NC	0.93	1.05	NC	NC	1.08	1.13	1.03	NC	1.08	1.08	1.18	NC	0.17	NC	1.04
	SW24-11	2025-Jun-19	23	0	0%		0.10	0.92	0.33	0.71	NC	NC	0.35	1.05	NC	0.06	0.15	0.03	0.03	0.79	1.08	0.14	NC	1.04	0.26	NC	NC	0.98	1.04	0.76	NC	1.13	1.06	0.44	NC	0.93	NC	0.04
	SW24-11	2025-Jul-18	22	0	0%		0.04	0.99	0.50	0.44	NC	NC	0.26	0.96	NC	0.05	0.06	0.00	0.01	NC	0.78	0.12	NC	1.05	0.11	NC	NC	0.78	0.91	0.35	NC	0.94	0.94	0.26	NC	0.59	NC	0.02
	SW24-11	2025-Aug-22	22	0	0%		0.02	0.78	0.22	0.29	NC	NC	0.16	1.12	NC	0.03	0.03	0.00	0.01	NC	0.64	0.06	NC	1.15	0.07	NC	NC	0.62	0.85	0.17	NC	0.85	1.07	0.14	NC	0.59	NC	0.01
	SW24-11	2025-Sep-17	21	0	0%		0.04	0.83	0.44	0.38	NC	NC	0.20	0.97	NC	0.03	0.04	0.00	0.01	NC	0.67	0.10	NC	0.95	0.09	NC	NC	0.70	0.78	0.35	NC	0.79	0.88	0.23	NC	0.37	NC	NC
TRIBUTARY (ZONE 2)	CC-04	2025-Jun-20	13	0	0%		0.61	1.11	0.93	1.02	NC	NC	NC	1.11	NC	NC	0.43	0.12	NC	NC	NC	0.08	NC	1.08	NC	NC	NC	NC	0.87	1.06	NC	NC	1.04	NC	0.67	NC	NC
	CC-04	2025-Jul-19	19	0	0%		0.16	0.92	0.79	0.37	NC	NC	0.68	0.94	0.61	0.12	0.23	NC	0.01	NC	0.98	0.02	NC	1.01	NC	NC	NC	NC	0.81	0.92	NC	1.04	0.94	NC	NC	0.93	NC	0.24
	CC-04	2025-Aug-23	14	0	0%		1.13	1.23	1.13	1.23	NC	NC	NC	1.23	NC	NC	0.92	NC	NC	NC	1.28	0.16	NC	1.10	NC	NC	NC	N

Table 6: Surface Water QAQC - Dissolved:Total Metals Ratios

						D:T Ratio																														
					Parameters	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Titanium	Uranium	Vanadium	Zinc
Location Groups	Sample Location	Sample Date	Count	D:T Ratio >1.30	D:T Ratio >1.30 (%)																															
Zone 3	SW16-8	2025-Aug-21	23	0	0%	0.10	1.09	0.82	1.11	NC	NC	0.89	1.13	NC	0.19	0.60	0.01	0.03	0.91	1.10	0.15	NC	1.12	0.36	NC	NC	1.03	0.97	1.10	NC	1.27	1.20	0.73	NC	1.03	NC	0.55
	SW16-8	2025-Sep-16	22	0	0%	0.29	0.89	0.83	0.91	NC	NC	0.85	0.96	0.69	0.38	0.69	0.07	NC	NC	0.91	0.48	NC	0.95	0.45	NC	NC	0.92	0.92	0.91	NC	0.90	0.90	0.92	NC	0.87	NC	0.73
	SW24-4	2025-Jun-19	23	0	0%	0.10	0.91	0.48	0.87	NC	NC	0.51	1.04	NC	0.06	0.21	0.01	0.03	0.80	1.04	0.12	NC	1.06	0.23	NC	NC	1.08	1.10	0.89	NC	1.07	1.05	0.66	NC	0.91	NC	0.10
	SW24-4	2025-Jul-18	23	0	0%	0.58	1.07	0.90	1.01	NC	NC	0.95	1.02	NC	0.60	0.66	NC	0.28	1.40	1.03	0.47	NC	1.06	0.88	NC	0.00	0.98	0.97	0.91	NC	1.01	0.97	0.94	NC	0.97	NC	0.93
	SW24-4	2025-Aug-21	22	1	5%	0.16	1.18	0.73	1.05	NC	NC	1.05	1.18	NC	0.36	0.26	NC	0.09	0.88	1.19	0.32	NC	1.11	0.46	NC	NC	1.05	1.08	0.93	NC	1.33	1.23	0.88	NC	0.45	NC	0.86
	SW24-4	2025-Sep-17	19	0	0%	0.14	0.77	0.73	0.82	NC	NC	0.75	0.85	NC	NC	0.30	NC	NC	NC	0.86	0.05	NC	0.90	0.23	NC	NC	0.87	0.75	0.71	NC	0.86	0.89	0.63	NC	0.93	NC	0.48
	TUL-09	2025-Jun-19	23	0	0%	0.03	0.65	0.17	0.48	NC	NC	0.15	0.94	NC	0.02	0.06	0.01	0.01	0.48	0.83	0.04	NC	1.00	0.12	NC	NC	0.83	0.90	0.47	NC	0.98	0.98	0.30	NC	0.65	NC	0.02
	TUL-09	2025-Jul-18	24	0	0%	0.03	0.80	0.41	0.41	NC	NC	0.24	0.98	NC	0.04	0.04	0.01	0.01	NC	0.70	0.09	NC	1.12	0.11	NC	NC	0.73	0.92	0.26	NC	0.82	0.95	0.19	0.01	0.57	0.05	0.03
	TUL-09	2025-Aug-22	21	0	0%	0.01	0.63	0.18	0.23	NC	NC	0.16	1.04	NC	0.02	0.02	0.00	0.01	NC	0.54	0.05	NC	1.01	0.06	NC	NC	0.48	0.99	0.10	NC	0.59	0.94	0.11	NC	0.54	NC	NC
	TUL-09	2025-Sep-15	23	0	0%	0.02	0.83	0.32	0.35	NC	NC	0.18	0.98	NC	0.02	0.03	0.00	0.01	NC	0.65	0.07	NC	1.11	0.07	0.30	0.00	0.71	0.78	0.23	NC	0.85	0.99	0.14	NC	0.44	NC	NC
TRIBUTARY (ZONE 3)	SW21-5	2025-Jun-19	19	0	0%	0.06	1.00	0.72	0.69	NC	NC	NC	0.96	0.15	0.05	0.11	0.01	NC	NC	0.82	0.24	NC	0.91	0.07	NC	NC	0.77	1.01	0.56	NC	0.93	0.98	NC	NC	0.81	NC	NC
	SW21-5	2025-Jul-17	19	0	0%	0.12	1.06	0.93	0.82	NC	NC	NC	1.00	0.25	0.10	0.20	0.02	0.38	NC	0.96	0.27	NC	1.13	0.31	NC	NC	NC	0.86	0.68	NC	1.05	0.99	NC	NC	0.97	NC	NC
	SW21-5	2025-Aug-21	18	1	6%	0.19	1.09	1.04	1.02	NC	NC	NC	1.13	NC	0.08	0.29	0.01	NC	NC	1.10	0.33	NC	1.07	0.10	NC	NC	NC	1.01	0.89	NC	1.30	1.19	NC	NC	1.02	NC	1.93
	SW21-5	2025-Sep-17	17	0	0%	0.15	0.81	0.80	0.82	NC	NC	NC	0.91	NC	NC	0.22	0.01	NC	NC	0.87	0.27	NC	0.86	0.11	NC	NC	NC	0.89	0.70	NC	0.91	0.90	NC	NC	0.81	NC	0.32
Zone 4	SW24-8	2025-Jun-18	21	0	0%	0.20	1.06	0.99	0.98	NC	NC	0.46	1.01	NC	0.52	0.73	NC	NC	0.96	0.96	0.34	NC	0.99	0.90	NC	NC	0.99	0.87	0.98	NC	0.97	0.97	0.77	NC	0.89	NC	0.42
	SW24-8	2025-Jul-17	21	0	0%	0.25	1.03	0.89	0.99	NC	NC	0.70	1.00	NC	0.31	0.61	NC	NC	1.24	1.01	0.43	NC	1.04	0.94	NC	NC	0.93	0.92	0.98	NC	0.97	0.98	1.15	NC	0.96	NC	0.99
	SW24-8	2025-Aug-22	22	0	0%	0.23	1.12	1.26	1.15	NC	NC	1.23	1.13	NC	0.56	0.87	0.07	NC	0.96	1.27	0.45	NC	1.14	1.02	NC	NC	1.14	1.12	1.19	NC	1.27	1.27	0.89	NC	1.11	NC	0.61
	SW24-8	2025-Sep-15	21	0	0%	0.26	1.06	1.00	1.19	NC	NC	1.07	1.13	NC	0.65	0.96	0.12	NC	NC	1.20	0.47	NC	1.18	1.02	NC	NC	1.19	1.18	1.11	NC	1.20	1.18	1.57	NC	1.25	NC	0.95
	SW24-10	2025-Jun-19	23	0	0%	0.04	0.65	0.18	0.49	NC	NC	0.15	0.96	NC	0.03	0.07	0.01	0.01	0.50	0.81	0.08	NC	0.96	0.13	NC	NC	0.86	0.88	0.49	NC	0.97	0.94	0.31	NC	0.65	NC	0.02
	SW24-10	2025-Jul-17	24	0	0%	0.03	0.94	0.47	0.42	NC	NC	0.28	1.03	NC	0.05	0.05	0.00	0.01	0.39	0.69	0.11	NC	1.12	0.11	NC	NC	0.78	0.96	0.33	NC	0.79	0.96	0.34	0.01	0.66	NC	0.03
	SW24-10	2025-Aug-22	23	0	0%	0.02	0.73	0.22	0.26	NC	NC	0.21	1.12	NC	0.02	0.03	0.00	0.01	NC	0.61	0.06	NC	1.05	0.07	NC	NC	0.52	0.97	0.13	NC	0.67	0.98	0.15	0.00	0.61	NC	0.02
	SW24-10	2025-Sep-17	22	0	0%	0.02	0.72	0.34	0.34	NC	NC	0.22	0.99	NC	0.03	0.04	0.00	0.01	NC	0.61	0.07	NC	1.07	0.07	NC	NC	0.69	0.86	0.20	NC	0.80	1.00	0.22	NC	0.59	NC	0.01
	TUL-12	2025-Jun-18	22	0	0%	0.04	0.93	0.61	0.81	NC	NC	0.55	0.93	NC	0.05	0.15	0.00	0.05	NC	0.82	0.17	NC	1.02	0.13	NC	NC	0.92	0.91	0.58	NC	0.93	0.94	0.61	NC	0.84	NC	0.19
	TUL-12	2025-Jul-17	23	0	0%	0.04	1.00	0.63	0.65	NC	NC	0.71	0.97	NC	0.04	0.12	0.00	0.01	0.75	0.79	0.08	NC	1.02	0.12	NC	NC	0.81	0.95	0.44	NC	0.88	0.93	0.43	NC	0.78	NC	0.51
	TUL-12	2025-Aug-22	21	0	0%	0.23	1.22	1.12	1.12	NC	NC	1.10	1.27	NC	0.12	0.48	NC	NC	0.89	1.21	0.25	NC	1.22	0.29	NC	NC	1.13	1.17	1.11	NC	1.42	1.30	0.98	NC	1.14	NC	0.90
	TUL-12	2025-Sep-17	19	0	0%	0.17	1.16	1.00	1.09	NC	NC	0.95	1.09	NC	NC	0.35	NC	NC	NC	1.12	0.31	NC	1.13	0.38	NC	NC	1.07	0.98	0.85	NC	1.16	1.15	0.82	NC	1.20	NC	0.57
	SW24-6	2025-Jun-18	22	0	0%	0.06	1.02	0.60	0.65	NC	NC	0.35	1.05	NC	0.08	0.11	0.01	0.02	NC	0.92	0.15	NC	1.06	0.22	NC	NC	1.03	1.06	0.59	NC	1.05	1.01	0.43	NC	0.76	0.12	NC
	SW24-6	2025-Jul-17	26	0	0%	0.04	0.99	0.46	0.44	NC	NC	0.24	0.94	NC	0.05	0.05	0.01	0.01	0.47	0.73	0.11	NC	1.08	0.12	0.13	0.00	0.76	0.88	0.30	NC	0.83	0.94	0.29	0.01	0.67	NC	0.02
	SW24-6	2025-Aug-22	24	0	0%	0.01	0.63	0.22	0.26	NC	NC	0.27	1.08	NC	0.03	0.03	0.00	0.01	0.20	0.58	0.05	NC	1.01	0.07	NC	NC	0.52	1.08	0.11	NC	0.69	0.97	0.14	0.00	0.54	NC	0.03
	SW24-6	2025-Sep-15	21	0	0%	0.02	0.71	0.31	0.36	NC	NC	0.19	1.03	NC	0.02	0.03	0.00	0.01	NC	0.59	0.07	NC	1.06	0.07	NC	NC	0.69	0.84	0.22	NC	0.83	1.00	0.21	NC	0.50	NC	NC
	W32/TUL-15	2025-Jun-18	22	0	0%	0.07	0.94	0.50	0.65	NC	NC	0.61	1.03	NC	0.11	0.18	0.01	0.07	NC	0.90	0.24	NC	1.02	0.26	NC	NC	0.95	0.91	0.64	NC	1.00	1.00	0.43	NC	0.76	NC	0.09
	W32/TUL-15	2025-Jul-17	24	0	0%	0.05	0.93	0.55	0.47	NC	NC	0.24	0.98	NC	0.06	0.07	0.01	0.02	0.44	0.73	0.14	NC	1.08	0.14	NC	NC	0.77	1.05	0.40	NC	0.85	0.95	0.29	0.01	0.75	NC	0.03
	W32/TUL-15	2025-Aug-22	25	0	0%	0.01	0.88	0.21	0.25	NC	NC	0.16	1.08	NC	0.03	0.03	0.00	0.01	NC	0.57	0.05	NC	1.03	0.06	1.02	0.00	0.52	0.97	0.12	NC	0.71	0.99	0.12	0.00	0.57	NC	0.01
	W32/TUL-15	2025-Sep-15	22	0	0%	0.02	0.81	0.33	0.34	NC	NC	0.18	0.99	NC	0.02	0.03	0.00	0.01	NC	0.57	0.06	NC	1.07	0.06	NC	NC	0.66	0.79	0.19	NC	0.77	0.97	0.18	NC	0.49	NC	0.01
	SW24-7	2025-Jun-18	23	0	0%	0.06	0.91	0.43	0.59	NC	NC	0.26	1.00	NC	0.07	0.12	0.01	0.02	0.54	0.91	0.18	NC	1.03	0.23	NC	NC	0.92	0.97	0.58	NC	0.99	1.01	0.31	NC	0.67	NC	0.03
	SW24-7	2025-Jul-17	24	0	0%	0.04	1.11	0.49	0.43	NC	NC	0.30	0.92	NC	0.05	0.06	0.01	0.02	0.50	0.74	0.12	NC	1.00	0.11	NC	NC	0.77	0.88	0.28	NC	0.88	0.95	0.28	0.01	0.69	NC	0.03
	SW24-7	2025-Aug-22	23	0	0%	0.01	0.75	0.21	0.24	NC	NC	0.22	1.02	NC	0.02	0.03	0.00	0.01	NC	0.56	0.06	NC	1.03	0.07	NC	NC	0.49	0.93	0.09	NC	0.63	0.96	0.14	0.00	0.54	NC	0.01
	SW24-7	2025-Sep-15	22	0	0%	0.03	0.84	0.44	0.42	NC	NC	0.20	1.00	NC	0.03	0.04	0.00	0.01	NC	0.74	0.09	NC	1.13	0.08	NC	NC	0.77	0.77	0.30	NC	0.93	1.04	0.21	NC	0.42	NC	0.15
TRIBUTARY (ZONE 4)	SW24-5	2025-Jun-20	17	0	0%	0.43	1.06	0.91	0.93	NC	NC	NC	0.93	NC	0.39	0.78	0.09	NC	NC	0.93	0.13	NC	0.91	0.61	NC	NC	0.97	NC	0.95	NC	0.99	0.97	NC	NC	0.50	NC	NC
		Total	2676	20	1%																															

Notes:

D:T Ratio	Dissolved : Total Metals Ratio
NC	not calculated
1.31	D:T Ratio > 1.3

Table 7: Relative Percent Differences in Surface Water Duplicates

						Effluent									Zone 1					
					Sample Location	SE2			5400 LEVEL ADIT						SW21-2			TUL-05		
					Sample Date	2025-Jun-21			2025-Jul-19			2025-Aug-23			2025-Sep-18			2025-Jul-20		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SE-2	25-06-DUP03	RPD %	5400 LEVEL ADIT	25-07-DUP04	RPD %	5400 Level Adit	25-08-DUP04	RPD %	SW21-2	25-09-DUP04	RPD %	TUL-05	25-07-DUP05	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit															
Carbon	Dissolved organic carbon	F	mg/L	0.50	50	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC
General	Cation-anion balance	T	%		50	2.8	0.57	NC	3.1	1.1	NC	0.11	0.64	NC	4.3	1.5	NC	3.2	0.05	NC
	Electrical conductivity (lab)	T	uS/cm	2.0	50	670	670	0	510	460	10	510	510	0	65	65	0	92	83	10
	Hardness (as CaCO3)	F	mg/L	0.50	50	173	166	4	128	135	5	144	147	2	27.2	26.5	3	34.9	37	6
		T			50	160	129	21	132	136	3	125	127	2	32	38.1	17	34.1	39.4	14
	Ion balance	T	NA	0.010	50	1.1	1	10	0.94	1	6	1	1	0	0.91	0.97	6	0.93	0.99	6
	pH (lab)	T	pH Units		50	3.64	3.62	NC	4.42	4.71	NC	4.6	4.48	NC	6.82	6.65	NC	7.29	6.73	NC
	Total dissolved solids	T	mg/L	1.0	50	-	-	-	-	-	-	-	-	-	34	32	6	45	46	2
				5.0	50	340	330	3	260	260	0	280	290	4	-	-	-	-	-	-
	Total Kjeldahl Nitrogen	T	mg/L	0.020	50	0.078	0.021	NC	0.15	0.17	12	0.23	0.14	49	0.039	0.023	NC	< 0.020	< 0.020	NC
	Total suspended solids	T	mg/L	1.0	50	19	19	0	31	32	3	30	32	6	93	100	7	36	34	6
Inorganics	Alkalinity (bicarbonate)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	25	22	13	30	30	0
	Alkalinity (carbonate)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Alkalinity (P)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Alkalinity (total as CaCO3)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	21	18	15	25	25	0
	Ammonia (as N)	T	mg/L	0.015	50	< 0.015	0.024	NC	0.16	0.018	NC	0.03	0.031	NC	0.015	< 0.015	NC	< 0.015	< 0.015	NC
	Chloride ion	F	mg/L	1.0	50	6.1	5.6	9	7.4	8	8	10	9.8	2	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Fluoride	F	mg/L	0.050	50	0.45	0.47	4	0.4	0.39	3	0.38	0.46	19	< 0.050	< 0.050	NC	0.059	0.05	NC
	Hydroxide	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Nitrate (as N)	T	mg/L	0.020	50	0.082	0.08	NC	0.105	0.096	NC	0.082	0.084	NC	0.034	0.038	NC	0.03	0.051	NC
	Nitrate and nitrite (as N)	T	mg/L	0.020	50	0.082	0.08	NC	0.105	0.107	2	0.082	0.084	NC	0.034	0.038	NC	0.03	0.051	NC
	Nitrite (as N)	T	mg/L	0.0050	50	< 0.0050	< 0.0050	NC	< 0.0050	0.0113	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC
	Nitrogen (total)	T	mg/L	0.020	50	0.161	0.101	46	0.251	0.279	11	0.31	0.225	32	0.074	0.061	NC	0.045	0.057	NC
	Orthophosphate (as PO4)	T	mg/L	0.0030	50	0.0043	< 0.0030	NC	< 0.0030	< 0.0030	NC	0.0045	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC
	Sulphate	F	mg/L	1.0	50	-	-	-	-	-	-	-	-	-	10	10	0	15	15	0
				5.0	50	260	260	0	200	200	0	210	210	0	-	-	-	-	-	-
	Sulphur	F	mg/L	15	50	-	-	-	-	-	-	64	67	NC	-	-	-	-	-	-
				3.0	50	-	-	-	-	-	-	-	-	-	3.3	3.1	NC	4.7	4.4	NC
				30	50	99	94	NC	60	56	NC	-	-	-	-	-	-	-	-	-
				6.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		15	50	93	77	19	66	68	NC	58	64	NC	-	-	-	-	-	-
				3.0	50	-	-	-	-	-	-	-	-	-	3.3	< 3.0	NC	4.1	4.7	NC
				6.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Effluent									Zone 1					
					Sample Location	SE2			5400 LEVEL ADIT						SW21-2			TUL-05		
					Sample Date	2025-Jun-21			2025-Jul-19			2025-Aug-23			2025-Sep-18			2025-Jul-20		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SE-2	25-06-DUP03	RPD %	5400 LEVEL ADIT	25-07-DUP04	RPD %	5400 Level Adit	25-08-DUP04	RPD %	SW21-2	25-09-DUP04	RPD %	TUL-05	25-07-DUP05	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit															
Metals	Aluminum	F	µg/L	0.50	50	-	-	-	-	-	-	-	-	-	8.45	10.3	20	49.6	50.7	2
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50	-	-	-	-	-	-	3510	3610	3	-	-	-	-	-	-
				5.0	50	6740	6270	7	2380	2980	22	-	-	-	-	-	-	-	-	-
		T		0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				15	50	6640	5690	15	2980	3240	8	2780	3010	8	-	-	-	-	-	-
				3.0	50	-	-	-	-	-	-	-	-	-	948	2940	102	1200	1160	3
	Antimony	F	µg/L	0.020	50	-	-	-	-	-	-	-	-	-	0.034	0.034	NC	0.101	0.113	11
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	0.45	0.54	NC	-	-	-	-	-	-
				0.20	50	0.26	0.26	NC	0.56	0.43	NC	-	-	-	-	-	-	-	-	-
		T		0.020	50	-	-	-	-	-	-	-	-	-	0.056	0.128	NC	0.107	0.117	9
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	2.36	2.15	9	5.2	5.25	1	8.27	8.66	5	-	-	-	-	-	-
	Arsenic	F	µg/L	0.020	50	-	-	-	-	-	-	-	-	-	0.124	0.105	17	0.521	0.533	2
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	0.22	0.4	NC	-	-	-	-	-	-
				0.20	50	0.31	0.27	NC	0.77	0.29	NC	-	-	-	-	-	-	-	-	-
		T		0.020	50	-	-	-	-	-	-	-	-	-	0.457	0.987	73	1.09	1.22	11
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	52.1	45.3	14	94	102	8	139	144	4	-	-	-	-	-	-
	Barium	F	µg/L	0.020	50	-	-	-	-	-	-	-	-	-	35.2	35.1	0	18	18.8	4
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	30	31	3	-	-	-	-	-	-
				0.20	50	27.8	28	1	30.7	33.2	8	-	-	-	-	-	-	-	-	-
		T		0.020	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	74.5	125	51	42	47.4	12
				0.25	50	28.3	23.1	20	33.9	36.9	8	46.7	62.8	29	-	-	-	-	-	-
	Beryllium	F	µg/L	0.010	50	-	-	-	-	-	-	-	-	-	< 0.010	0.017	NC	< 0.010	< 0.010	NC
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	0.153	0.203	NC	-	-	-	-	-	-
				0.10	50	0.24	0.26	NC	< 0.10	0.21	NC	-	-	-	-	-	-	-	-	-
		T		0.010	50	-	-	-	-	-	-	-	-	-	0.032	0.079	NC	0.026	0.03	NC
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	0.254	0.248	NC	0.155	0.145	NC	0.169	0.178	NC	-	-	-	-	-	-
	Bismuth	F	µg/L	0.0050	50	-	-	-	-	-	-	-	-	-	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	< 0.025	< 0.025	NC	-	-	-	-	-	-
				0.050	50	< 0.050	< 0.050	NC	< 0.050	< 0.050	NC	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	0.018	0.03	NC	0.052	0.065	22
				0.050	50	< 0.050	< 0.050	NC	< 0.050	< 0.050	NC	< 0.050	< 0.050	NC	-	-	-	-	-	-
	Boron	F	µg/L	10	50	-	-	-	-	-	-	-	-	-	< 10	< 10	NC	< 10	< 10	NC
				100	50	< 100	< 100	NC	< 100	< 100	NC	-	-	-	-	-	-	-	-	-
				20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	-	-	-	-	-	-	< 50	< 50	NC	-	-	-	-	-	-
		T		10	50	-	-	-	-	-	-	-	-	-	< 10	< 10	NC	< 10	< 10	NC
				20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	< 50	< 50	NC	< 50	< 50	NC	< 50	< 50	NC	-	-	-	-	-	-
	Cadmium	F	µg/L	0.0050	50	-	-	-	-	-	-	-	-	-	0.0157	0.0161	NC	0.0081	0.0104	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	145	155	7	-	-	-	-	-	-
				0.050	50	154	151	2	137	149	8	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	0.053	0.0866	48	0.0353	0.0496	34
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	146	128	13	139	147	6	140	145	4	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Effluent									Zone 1					
					Sample Location	SE2			5400 LEVEL ADIT						SW21-2			TUL-05		
					Sample Date	2025-Jun-21			2025-Jul-19			2025-Aug-23			2025-Sep-18			2025-Jul-20		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit	Sample Name	SE-2	25-06-DUP03	RPD %	5400 LEVEL ADIT	25-07-DUP04	RPD %	5400 Level Adit	25-08-DUP04	RPD %	SW21-2	25-09-DUP04	RPD %	TUL-05	25-07-DUP05	RPD %
Metals	Calcium	F	mg/L	0.050	50		-	-	-	-	-	-	-	-	-	8.52	8.21	4	11.6	12.2	5
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	50.7	51.5	2	-	-	-	-	-	-
				0.50	50		58.7	56.8	3	44.5	46.2	4	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	-	-	-	9.28	9.12	2	10.7	12.3	14
				1.3	50		54.1	44	21	46.2	47.6	3	44.4	44.7	1	-	-	-	-	-	-
	Chromium (III+VI)	F	µg/L	0.10	50		-	-	-	-	-	-	-	-	-	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC
				0.20	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50		-	-	-	-	-	-	< 0.50	< 0.50	NC	-	-	-	-	-	-
				1.0	50		< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	-	-	-	-	-	-	-	-	-
		T		0.10	50		-	-	-	-	-	-	-	-	-	3.35	10.5	103	1.54	1.55	1
				0.20	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50		1.03	0.82	NC	< 0.50	< 0.50	NC	0.67	0.56	NC	-	-	-	-	-	-
	Cobalt	F	µg/L	0.0050	50		-	-	-	-	-	-	-	-	-	0.026	0.0257	1	0.0325	0.0328	1
				0.010	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50		-	-	-	-	-	-	2.67	2.77	4	-	-	-	-	-	-
				0.050	50		5.43	5.2	4	2.57	2.68	4	-	-	-	-	-	-	-	-	-
		T		0.0050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50		-	-	-	-	-	-	-	-	-	1.16	2.42	70	0.729	0.78	7
				0.050	50		4.71	4.19	12	2.49	2.67	7	2.56	2.71	6	-	-	-	-	-	-
	Copper	F	µg/L	0.050	50		-	-	-	-	-	-	-	-	-	0.365	0.384	5	0.149	0.156	NC
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	5960	6250	5	-	-	-	-	-	-
				0.50	50		7290	6850	6	4950	5290	7	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	-	-	-	6.39	11.4	56	2.99	3.31	10
				0.50	50		7000	6030	15	5000	5350	7	5790	6180	7	-	-	-	-	-	-
	Iron	F	µg/L	1.0	50		-	-	-	-	-	-	-	-	-	6.8	9.6	34	7.6	6.4	17
				10	50		1120	658	52	70	14	NC	-	-	-	-	-	-	-	-	-
				2.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50		-	-	-	-	-	-	44.5	48	8	-	-	-	-	-	-
		T		1.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				25	50		7910	7080	11	8440	9100	8	12700	13000	2	-	-	-	-	-	-
				5.0	50		-	-	-	-	-	-	-	-	-	1760	5260	100	1350	1400	4
	Lead	F	µg/L	0.0050	50		-	-	-	-	-	-	-	-	-	0.005	0.0093	NC	0.0147	0.0137	NC
				0.010	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50		-	-	-	-	-	-	59.8	64.8	8	-	-	-	-	-	-
				0.050	50		97.8	95.8	2	52.4	57.1	9	-	-	-	-	-	-	-	-	-
		T		0.0050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.020	50		-	-	-	-	-	-	-	-	-	0.798	1.29	47	1.14	1.32	15
				0.10	50		97.3	83.3	16	81.4	87.4	7	92.9	96.8	4	-	-	-	-	-	-
	Lithium	F	µg/L	0.50	50		-	-	-	-	-	-	-	-	-	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC
				1.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50		-	-	-	-	-	-	8.4	9.1	NC	-	-	-	-	-	-
				5.0	50		9.9	9.5	NC	7.1	8	NC	-	-	-	-	-	-	-	-	-
		T		0.50	50		-	-	-	-	-	-	-	-	-	0.89	2.68	NC	1.06	1.38	NC
				1.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50		8.3	7.1	NC	7.1	7.1	NC	7.7	7.8	NC	-	-	-	-	-	-
	Magnesium	F	mg/L	0.050	50		-	-	-	-	-	-	-	-	-	1.45	1.46	1	1.47	1.61	9
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	4.22	4.42	5	-	-	-	-	-	-
				0.50	50		6.36	5.95	7	4.03	4.75	16	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	-	-	-	2.14	3.71	54	1.77	2.12	18
				1.3	50		6	4.6	NC	4.1	4.2	NC	3.4	3.8	NC	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Effluent									Zone 1					
					Sample Location	SE2			5400 LEVEL ADIT						SW21-2			TUL-05		
					Sample Date	2025-Jun-21			2025-Jul-19			2025-Aug-23			2025-Sep-18			2025-Jul-20		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit	Sample Name	SE-2	25-06-DUP03	RPD %	5400 LEVEL ADIT	25-07-DUP04	RPD %	5400 Level Adit	25-08-DUP04	RPD %	SW21-2	25-09-DUP04	RPD %	TUL-05	25-07-DUP05	RPD %
Metals	Manganese	F	µg/L	0.050	50		-	-	-	-	-	-	-	-	-	7.82	7.87	1	3.36	3.55	5
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	251	259	3	-	-	-	-	-	-
				0.50	50		334	325	3	246	262	6	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	-	-	-	77.6	142	59	36.9	41	11
				0.50	50		305	249	20	252	268	6	241	252	4	-	-	-	-	-	-
	Mercury	F	µg/L	0.0019	50		< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC
		T			50		0.0074	0.0076	NC	0.0111	0.0117	5	0.0111	0.013	16	< 0.0019	< 0.0019	NC	< 0.0019	0.002	NC
	Molybdenum	F	µg/L	0.050	50		-	-	-	-	-	-	-	-	-	0.95	1.02	7	2.33	2.63	12
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	< 0.25	< 0.25	NC	-	-	-	-	-	-
				0.50	50		< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	1.04	1.27	20	2.06	2.4	15
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		0.33	0.27	NC	0.88	0.79	NC	1.25	1.28	NC	-	-	-	-	-	-
	Nickel	F	µg/L	0.020	50		-	-	-	-	-	-	-	-	-	1.26	1.32	5	0.288	0.278	4
				0.040	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	4.62	4.81	4	-	-	-	-	-	-
				0.20	50		8.42	8.46	0	4.99	4.94	1	-	-	-	-	-	-	-	-	-
		T		0.020	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.040	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	-	-	-	6.56	12.5	62	2.3	2.47	7
				0.50	50		7.77	6.81	13	4.43	5.2	16	4.89	4.94	1	-	-	-	-	-	-
	Phosphorus	F	mg/L	0.0030	50		< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	0.0047	NC
		T	µg/L	2.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				25	50		< 25	< 25	NC	< 25	27	NC	< 25	25	NC	-	-	-	-	-	-
				4.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50		-	-	-	-	-	-	-	-	-	44.6	85.3	63	29.7	39.5	28
			mg/L	0.0030	50		-	-	-	0.073	0.06	20	0.079	0.073	8	0.11	0.09	20	0.043	0.043	0
	Potassium	F	mg/L	0.050	50		-	-	-	-	-	-	-	-	-	0.688	0.676	2	1.05	1.09	4
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	0.57	0.62	NC	-	-	-	-	-	-
				0.50	50		0.83	0.82	NC	0.56	0.61	NC	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	-	-	-	0.94	1.27	NC	1.27	1.41	10
				1.3	50		< 1.3	< 1.3	NC	< 1.3	< 1.3	NC	< 1.3	< 1.3	NC	-	-	-	-	-	-
	Selenium	F	µg/L	0.040	50		-	-	-	-	-	-	-	-	-	0.15	0.159	NC	0.159	0.164	NC
				0.080	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50		-	-	-	-	-	-	0.25	0.27	NC	-	-	-	-	-	-
				0.40	50		< 0.40	< 0.40	NC	< 0.40	< 0.40	NC	-	-	-	-	-	-	-	-	-
		T		0.040	50		-	-	-	-	-	-	-	-	-	0.175	0.237	NC	0.156	0.179	NC
				0.080	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50		< 0.20	< 0.20	NC	0.3	0.29	NC	0.24	0.32	NC	-	-	-	-	-	-
	Silicon	F	µg/L	100	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				250	50		-	-	-	-	-	-	4460	4610	3	-	-	-	-	-	-
				50	50		-	-	-	-	-	-	-	-	-	421	410	3	847	896	6
				500	50		6640	6480	2	3570	4280	18	-	-	-	-	-	-	-	-	-
		T		100	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				250	50		6150	5160	18	3850	3910	2	3550	3680	4	-	-	-	-	-	-
				50	50		-	-	-	-	-	-	-	-	-	1890	4880	88	2910	2510	15

Table 7: Relative Percent Differences in Surface Water Duplicates

						Effluent									Zone 1					
					Sample Location	SE2			5400 LEVEL ADIT						SW21-2			TUL-05		
					Sample Date	2025-Jun-21			2025-Jul-19			2025-Aug-23			2025-Sep-18			2025-Jul-20		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit	Sample Name	SE-2	25-06-DUP03	RPD %	5400 LEVEL ADIT	25-07-DUP04	RPD %	5400 Level Adit	25-08-DUP04	RPD %	SW21-2	25-09-DUP04	RPD %	TUL-05	25-07-DUP05	RPD %
Metals	Silver	F	µg/L	0.0050	50		-	-	-	-	-	-	-	-	-	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC
				0.010	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50		-	-	-	-	-	-	0.029	0.026	NC	-	-	-	-	-	-
				0.050	50		0.066	0.073	NC	0.056	< 0.050	NC	-	-	-	-	-	-	-	-	-
		T		0.0050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50		-	-	-	-	-	-	-	-	-	0.023	0.036	NC	0.015	0.019	NC
				0.050	50		0.118	0.093	NC	0.095	0.112	NC	0.146	0.143	NC	-	-	-	-	-	-
	Sodium	F	mg/L	0.050	50		-	-	-	-	-	-	-	-	-	0.175	0.178	NC	0.633	0.709	11
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	5.2	5.34	3	-	-	-	-	-	-
				0.50	50		4.18	4.07	3	3.99	4.54	13	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	-	-	-	< 0.25	0.28	NC	0.67	0.77	NC
				1.3	50		3.8	2.9	NC	4.3	4.1	NC	3.9	4.3	NC	-	-	-	-	-	-
	Strontium	F	µg/L	0.050	50		-	-	-	-	-	-	-	-	-	31	30.2	3	52.2	54.6	4
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		-	-	-	-	-	-	187	198	6	-	-	-	-	-	-
				0.50	50		234	229	2	172	177	3	-	-	-	-	-	-	-	-	-
		T		0.050	50		-	-	-	-	-	-	-	-	-	32.8	33.6	2	50.8	58.1	13
				0.10	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50		223	194	14	175	182	4	159	167	5	-	-	-	-	-	-
	Thallium	F	µg/L	0.0020	50		-	-	-	-	-	-	-	-	-	0.0105	0.0089	NC	0.004	0.0066	NC
				0.0040	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50		-	-	-	-	-	-	0.125	0.138	10	-	-	-	-	-	-
				0.020	50		0.241	0.247	2	0.143	0.144	1	-	-	-	-	-	-	-	-	-
		T		0.0020	50		-	-	-	-	-	-	-	-	-	0.0248	0.0472	62	0.0204	0.0212	4
				0.0040	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50		0.238	0.22	8	0.124	0.152	20	0.121	0.135	11	-	-	-	-	-	-
	Tin	F	µg/L	0.20	50		-	-	-	-	-	-	-	-	-	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC
				0.40	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50		-	-	-	-	-	-	< 1.0	< 1.0	NC	-	-	-	-	-	-
				2.0	50		< 2.0	< 2.0	NC	< 2.0	< 2.0	NC	-	-	-	-	-	-	-	-	-
		T		0.20	50		-	-	-	-	-	-	-	-	-	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC
				0.40	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50		< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	-	-	-	-	-	-
	Titanium	F	µg/L	0.50	50		-	-	-	-	-	-	-	-	-	< 0.50	< 0.50	NC	0.64	< 0.50	NC
				1.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50		-	-	-	-	-	-	< 2.5	< 2.5	NC	-	-	-	-	-	-
				5.0	50		< 5.0	< 5.0	NC	< 5.0	< 5.0	NC	-	-	-	-	-	-	-	-	-
		T		0.50	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				10	50		< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	-	-	-	-	-	-
				2.0	50		-	-	-	-	-	-	-	-	-	42.7	134	103	72.2	73.8	2
	Uranium	F	µg/L	0.0020	50		-	-	-	-	-	-	-	-	-	0.0453	0.0547	19	0.275	0.278	1
				0.0040	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50		-	-	-	-	-	-	2.2	2.25	2	-	-	-	-	-	-
				0.020	50		3.67	3.42	7	1.59	1.78	11	-	-	-	-	-	-	-	-	-
		T		0.0020	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.0040	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.0050	50		-	-	-	-	-	-	-	-	-	0.181	0.285	45	0.38	0.445	16
				0.025	50		3.85	3.08	22	1.74	1.82	4	2.09	2.21	6	-	-	-	-	-	-
	Vanadium	F	µg/L	0.20	50		-	-	-	-	-	-	-	-	-	< 0.20	< 0.20	NC	0.2	0.2	NC
				0.40	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50		-	-	-	-	-	-	< 1.0	< 1.0	NC	-	-	-	-	-	-
				2.0	50		< 2.0	< 2.0	NC	< 2.0	< 2.0	NC	-	-	-	-	-	-	-	-	-
		T		0.20	50		-	-	-	-	-	-	-	-	-	4.01	12.3	102	3.2	3.21	0
				0.40	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50		< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

					Effluent									Zone 1					
				Sample Location	SE2			5400 LEVEL ADIT						SW21-2			TUL-05		
				Sample Date	2025-Jun-21			2025-Jul-19			2025-Aug-23			2025-Sep-18			2025-Jul-20		
				Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD	
				Sample Name	SE-2	25-06-DUP03	RPD %	5400 LEVEL ADIT	25-07-DUP04	RPD %	5400 Level Adit	25-08-DUP04	RPD %	SW21-2	25-09-DUP04	RPD %	TUL-05	25-07-DUP05	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit														
Metals	Zinc	F	µg/L	0.10	50	-	-	-	-	-	-	-	-	-	< 0.10	0.23	NC	0.1	0.12	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	34800	36800	6	-	-	-	-	-	-
				1.0	50	37900	36600	3	33700	37600	11	-	-	-	-	-	-	-	-	-
		T		0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	9	17.6	65	6.2	6.8	9
				5.0	50	36600	31400	15	34200	36300	6	35100	36000	3	-	-	-	-	-	-
	Zirconium	F	µg/L	0.10	50	-	-	-	-	-	-	-	-	-	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	< 0.50	< 0.50	NC	-	-	-	-	-	-
				1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	-	-	-	-	-	-	-	-	-
		T		0.10	50	-	-	-	-	-	-	-	-	-	< 0.10	< 0.10	NC	0.16	< 0.10	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	-	-	-	-	-	-
					Total														
				Count	728			45			47			47			47			51
				RPD >20 %	89			5			1			3			20			3
				RPD >50 %	35			1			0			0			16			0
				Detect Rate >20 % RDP	12%			11%			2%			6%			43%			6%
				Detect Rate >50 % RDP	5%			2%			0%			0%			34%			0%

Notes:

'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	N (Normal)
Sample Type	FD (Duplicate)
RPD	relative percent difference
m	metres
%	percent
µg/L	microgram per litre
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NA	not applicable
NTU	nephelometric turbidity unit
pH Units	potential of hydrogen units
uS/cm	microsiemens per centimetre
NC	not calculated
RPD % Limit	NC is shown when the RPD was not calculated. The RPD is calculated when the results are 5 times greater than the detection limit. RPD Limit Exceedances are when the RPD is greater than 50%

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 2											
					Sample Location	SW24-1			SW24-11						W11		
					Sample Date	2025-Aug-24			2025-Jul-18			2025-Aug-22			2025-Jun-20		
					Sample Type	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %
					Sample Name	SW24-1	25-08-DUP05		SW24-11	25-07-DUP03		SW24-11	25-08-DUP03		W11	25-06-DUP02	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit												
Carbon	Dissolved organic carbon	F	mg/L	0.50	50	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC
General	Cation-anion balance	T	%		50	0.71	1.1	NC	0.53	2.1	NC	3.2	0.95	NC	5.8	4.2	NC
	Electrical conductivity (lab)	T	uS/cm	2.0	50	73	72	1	97	99	2	82	83	1	300	290	3
	Hardness (as CaCO3)	F	mg/L	0.50	50	32.7	32.2	2	39.2	38.6	2	38.3	37.3	3	118	113	4
		T			50	34	37.5	10	42.4	39.6	7	37.7	39.7	5	113	116	3
	Ion balance	T	NA	0.010	50	1	1	0	0.98	0.95	3	1.1	1	10	1.1	1.1	0
	pH (lab)	T	pH Units		50	6.98	7.04	NC	7.33	7.36	NC	7.06	7.09	NC	6.23	6.28	NC
	Total dissolved solids	T	mg/L	1.0	50	39	39	0	48	48	0	44	45	2	160	160	0
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-
	Total Kjeldahl Nitrogen	T	mg/L	0.020	50	< 0.020	0.053	NC	< 0.020	< 0.020	NC	0.096	0.04	NC	0.09	< 0.020	NC
	Total suspended solids	T	mg/L	1.0	50	49	49	0	32	34	6	40	49	20	12	10	18
Inorganics	Alkalinity (bicarbonate)	T	mg/L	1.0	50	27	25	8	32	33	3	29	29	0	26	25	4
	Alkalinity (carbonate)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Alkalinity (P)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Alkalinity (total as CaCO3)	T	mg/L	1.0	50	22	21	5	26	27	4	23	24	4	22	21	5
	Ammonia (as N)	T	mg/L	0.015	50	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC
	Chloride ion	F	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	1.5	1.6	NC
	Fluoride	F	mg/L	0.050	50	< 0.050	< 0.050	NC	0.058	0.06	NC	< 0.050	0.08	NC	0.18	0.19	NC
	Hydroxide	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Nitrate (as N)	T	mg/L	0.020	50	0.035	0.038	NC	0.04	0.05	NC	0.042	0.037	NC	0.135	0.132	2
	Nitrate and nitrite (as N)	T	mg/L	0.020	50	0.035	0.038	NC	0.04	0.05	NC	0.042	0.037	NC	0.135	0.132	2
	Nitrite (as N)	T	mg/L	0.0050	50	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC
	Nitrogen (total)	T	mg/L	0.020	50	0.045	0.092	NC	0.045	0.04	NC	0.137	0.077	NC	0.225	0.133	51
	Orthophosphate (as PO4)	T	mg/L	0.0030	50	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	0.0038	< 0.0030	NC	< 0.0030	< 0.0030	NC
	Sulphate	F	mg/L	1.0	50	12	13	8	16	16	0	14	14	0	96	97	1
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-
	Sulphur	F	mg/L	15	50	-	-	-	-	-	-	-	-	-	-	-	-
				3.0	50	3.8	3.5	NC	5	5	NC	3.8	4.2	NC	-	-	-
				30	50	-	-	-	-	-	-	-	-	-	-	-	-
				6.0	50	-	-	-	-	-	-	-	-	-	39.6	38.7	2
		T		15	50	-	-	-	-	-	-	-	-	-	-	-	-
				3.0	50	< 3.0	< 3.0	NC	4.8	4.7	NC	3.1	< 3.0	NC	-	-	-
				6.0	50	-	-	-	-	-	-	-	-	-	38.5	39.7	3

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 2											
	Sample Location	SW24-1			SW24-11						W11		
	Sample Date	2025-Aug-24			2025-Jul-18			2025-Aug-22			2025-Jun-20		
	Sample Type	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %
	Sample Name	SW24-1	25-08-DUP05		SW24-11	25-07-DUP03		SW24-11	25-08-DUP03		W11	25-06-DUP02	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit												
Metals	Aluminum	F	µg/L	0.50	50	48.3	44.1	9	42.9	49.1	13	39.9	43.6	9	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	14	13.5	4
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	2200	2280	4
				15	50	-	-	-	-	-	-	-	-	-	-	-	-
				3.0	50	2610	3480	29	1010	991	2	2110	3310	44	-	-	-
	Antimony	F	µg/L	0.020	50	0.097	0.1	NC	0.144	0.144	0	0.137	0.135	1	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	0.413	0.404	2
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	0.139	0.178	25	0.145	0.135	7	0.176	0.196	11	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	0.682	0.69	1
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
	Arsenic	F	µg/L	0.020	50	0.33	0.312	6	0.641	0.627	2	0.37	0.375	1	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	0.043	0.058	NC
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	1.67	1.83	9	1.27	1.17	8	1.66	1.97	17	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	6.12	6.52	6
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
	Barium	F	µg/L	0.020	50	17.3	17.5	1	18.2	18	1	17.4	17.7	2	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	31.3	31.1	1
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	32	31	3
				0.050	50	68.9	82.9	18	41.2	38.6	7	59.9	78.4	27	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
	Beryllium	F	µg/L	0.010	50	< 0.010	< 0.010	NC	< 0.010	< 0.010	NC	< 0.010	< 0.010	NC	-	-	-
				0.020	50	-	-	-	-	-	-	-	-	-	0.027	0.02	NC
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.010	50	0.087	0.087	0	0.028	0.031	NC	0.057	0.103	57	-	-	-
				0.020	50	-	-	-	-	-	-	-	-	-	0.074	0.078	NC
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
	Bismuth	F	µg/L	0.0050	50	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	< 0.010	< 0.010	NC
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	0.075	0.078	4	0.054	0.048	NC	0.074	0.077	4	< 0.010	< 0.010	NC
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
	Boron	F	µg/L	10	50	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	-	-	-
				100	50	-	-	-	-	-	-	-	-	-	-	-	-
				20	50	-	-	-	-	-	-	-	-	-	< 20	< 20	NC
				50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		10	50	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	-	-	-
				20	50	-	-	-	-	-	-	-	-	-	< 20	< 20	NC
				50	50	-	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	F	µg/L	0.0050	50	0.01	0.0099	NC	0.0102	0.0112	NC	0.0089	0.0095	NC	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	42.1	40.9	3
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	0.0507	0.0574	12	0.0399	0.037	8	0.0556	0.0614	10	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	41.9	42	0
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 2											
					Sample Location	SW24-1			SW24-11						W11		
					Sample Date	2025-Aug-24			2025-Jul-18			2025-Aug-22			2025-Jun-20		
					Sample Type	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %
					Sample Name	SW24-1	25-08-DUP05		SW24-11	25-07-DUP03		SW24-11	25-08-DUP03		W11	25-06-DUP02	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit												
Metals	Calcium	F	mg/L	0.050	50	11.1	10.8	3	13.1	12.9	2	13	12.7	2	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	40	38.5	4
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	38.9	39.7	2
				0.25	50	10.1	10.9	8	13.7	12.5	9	11.6	11.8	2	-	-	-
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-
	Chromium (III+VI)	F	µg/L	0.10	50	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	< 0.20	< 0.20	NC
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.10	50	4.27	7.31	53	1.44	1.53	6	3.6	4.77	28	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	0.34	0.35	NC
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
	Cobalt	F	µg/L	0.0050	50	0.0331	0.0324	2	0.0346	0.0339	2	0.0335	0.0325	3	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	2.01	2	0
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	1.41	1.58	11	0.751	0.641	16	1.34	1.51	12	1.91	1.97	3
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
	Copper	F	µg/L	0.050	50	0.145	0.131	NC	0.205	0.167	NC	0.135	0.149	NC	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	1240	1200	3
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	5.25	5.88	11	3.2	2.61	20	5.09	5.6	10	1980	2010	2
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
	Iron	F	µg/L	1.0	50	8.4	6.2	30	6.3	9.2	37	5.5	8.4	42	-	-	-
				10	50	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	< 2.0	< 2.0	NC
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		1.0	50	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	975	1050	7
				25	50	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	3130	3810	20	1320	1220	8	2900	3600	22	-	-	-
	Lead	F	µg/L	0.0050	50	0.0177	0.0104	NC	0.0153	0.0193	NC	0.0115	0.0183	NC	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	2.1	2.05	2
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	18.7	19.3	3
				0.020	50	1.82	2	9	1.18	0.978	19	1.75	1.91	9	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
	Lithium	F	µg/L	0.50	50	< 0.50	< 0.50	NC	< 0.50	0.53	NC	< 0.50	0.54	NC	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	3.9	3.8	NC
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.50	50	2.61	2.85	9	1.12	1.22	NC	2.58	2.76	7	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	3.7	3.8	NC
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-
	Magnesium	F	mg/L	0.050	50	1.22	1.25	2	1.56	1.53	2	1.39	1.37	1	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	4.27	4.11	4
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	3.95	4.08	3
				0.25	50	2.11	2.53	18	1.99	2.03	2	2.16	2.51	15	-	-	-
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 2												
					Sample Location	SW24-1			SW24-11						W11		
					Sample Date	2025-Aug-24			2025-Jul-18			2025-Aug-22			2025-Jun-20		
					Sample Type	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %
					Sample Name	SW24-1	25-08-DUP05		SW24-11	25-07-DUP03		SW24-11	25-08-DUP03		W11	25-06-DUP02	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit												
Metals	Manganese	F	µg/L	0.050	50	2.58	2.84	10	4.37	4.26	3	3.97	4.05	2	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	110	109	1
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	71.9	84.7	16	37.9	34	11	69.1	78.7	13	112	114	2
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
	Mercury	F	µg/L	0.0019	50	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC
		T			50	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC
	Molybdenum	F	µg/L	0.050	50	2.08	2.13	2	2.5	2.49	0	2.29	2.25	2	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	1.64	1.66	1
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	1.82	2.13	16	2.37	2.28	4	2	2.14	7	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	2.14	2.08	3
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	F	µg/L	0.020	50	0.218	0.194	12	0.289	0.287	1	0.286	0.299	4	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	3.7	3.72	1
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	3.79	3.65	4
				0.10	50	4.15	4.73	13	2.62	2.25	15	4.1	4.69	13	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
	Phosphorus	F	mg/L	0.0030	50	0.0043	< 0.0030	NC	< 0.0030	0.0084	NC	< 0.0030	0.054	NC	< 0.0030	< 0.0030	NC
		T	µg/L	2.0	50	-	-	-	-	-	-	-	-	-	-	-	-
				25	50	-	-	-	-	-	-	-	-	-	-	-	-
				4.0	50	-	-	-	-	-	-	-	-	-	5.4	5.3	NC
				5.0	50	39.7	46.8	16	30.1	26.7	12	40	41.5	4	-	-	-
			mg/L	0.0030	50	0.057	0.053	7	0.045	0.043	5	0.056	0.053	6	-	-	-
	Potassium	F	mg/L	0.050	50	0.916	0.898	2	0.959	0.955	0	0.852	0.86	1	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	1.27	1.28	1
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	1.25	1.25	0
				0.25	50	1.56	1.94	22	1.23	1.18	NC	1.37	1.81	28	-	-	-
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-
	Selenium	F	µg/L	0.040	50	0.142	0.12	NC	0.172	0.156	NC	0.126	0.131	NC	-	-	-
				0.080	50	-	-	-	-	-	-	-	-	-	0.316	0.315	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.40	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.040	50	0.14	0.156	NC	0.19	0.167	NC	0.149	0.144	NC	-	-	-
				0.080	50	-	-	-	-	-	-	-	-	-	0.348	0.31	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-
	Silicon	F	µg/L	100	50	-	-	-	-	-	-	-	-	-	3620	3500	3
				250	50	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	809	807	0	861	864	0	870	873	0	-	-	-
				500	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		100	50	-	-	-	-	-	-	-	-	-	3880	3950	2
				250	50	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	6320	9120	36	2460	2350	5	5140	8440	49	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 2											
					Sample Location	SW24-1			SW24-11						W11		
					Sample Date	2025-Aug-24			2025-Jul-18			2025-Aug-22			2025-Jun-20		
					Sample Type	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %
					Sample Name	SW24-1	25-08-DUP05		SW24-11	25-07-DUP03		SW24-11	25-08-DUP03		W11	25-06-DUP02	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit												
Metals	Silver	F	µg/L	0.0050	50	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	0.014	0.014	NC
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	0.023	0.026	NC	0.016	0.015	NC	0.026	0.027	NC	0.029	0.026	NC
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
	Sodium	F	mg/L	0.050	50	0.582	0.574	1	0.62	0.602	3	0.575	0.586	2	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	2.21	2.13	4
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	2.08	2.1	1
				0.25	50	0.76	1.01	NC	0.66	0.71	NC	0.68	0.96	NC	-	-	-
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-
	Strontium	F	µg/L	0.050	50	49	49.8	2	61.9	63.2	2	62.1	62.5	1	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	164	161	2
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	46.7	54.3	15	66.2	62.5	6	58.1	63.2	8	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	163	164	1
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-
	Thallium	F	µg/L	0.0020	50	0.0044	0.0041	NC	0.0055	0.0057	NC	0.0044	0.005	NC	-	-	-
				0.0040	50	-	-	-	-	-	-	-	-	-	0.0957	0.0985	3
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0020	50	0.0351	0.0451	25	0.0215	0.0187	14	0.0322	0.0437	30	-	-	-
				0.0040	50	-	-	-	-	-	-	-	-	-	0.102	0.094	8
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-
	Tin	F	µg/L	0.20	50	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	-	-	-
				0.40	50	-	-	-	-	-	-	-	-	-	< 0.40	< 0.40	NC
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.20	50	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	-	-	-
				0.40	50	-	-	-	-	-	-	-	-	-	< 0.40	< 0.40	NC
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-
	Titanium	F	µg/L	0.50	50	0.75	< 0.50	NC	< 0.50	0.57	NC	< 0.50	0.69	NC	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	< 1.0	< 1.0	NC
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	< 1.0	< 1.0	NC
				10	50	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	155	211	31	67.8	59.3	13	135	191	34	-	-	-
	Uranium	F	µg/L	0.0020	50	0.247	0.218	12	0.287	0.293	2	0.295	0.282	5	-	-	-
				0.0040	50	-	-	-	-	-	-	-	-	-	0.0425	0.0414	3
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0020	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.0040	50	-	-	-	-	-	-	-	-	-	1.24	1.31	5
				0.0050	50	0.465	0.51	9	0.486	0.407	18	0.504	0.527	4	-	-	-
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-
	Vanadium	F	µg/L	0.20	50	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	-	-	-
				0.40	50	-	-	-	-	-	-	-	-	-	< 0.40	< 0.40	NC
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.20	50	7.82	9.21	16	2.96	2.67	10	6.9	9.08	27	-	-	-
				0.40	50	-	-	-	-	-	-	-	-	-	< 0.40	< 0.40	NC
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 2											
					Sample Location	SW24-1			SW24-11						W11		
					Sample Date	2025-Aug-24			2025-Jul-18			2025-Aug-22			2025-Jun-20		
					Sample Type	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %	N	FD	RPD %
					Sample Name	SW24-1	25-08-DUP05		SW24-11	25-07-DUP03		SW24-11	25-08-DUP03		W11	25-06-DUP02	
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit												
Metals	Zinc	F	µg/L	0.10	50	0.23	0.17	NC	0.13	0.14	NC	0.12	0.13	NC	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	9670	9690	0
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		1.0	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	10200	10200	0
				1.0	50	11.5	13.4	15	6.2	5.2	18	11.4	12.3	8	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-
	Zirconium	F	µg/L	0.10	50	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	< 0.20	< 0.20	NC
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
		T		1.0	50	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	0.7	0.89	24	< 0.10	< 0.10	NC	0.19	0.8	NC	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	< 0.20	< 0.20	NC
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-
					Total												
				Count	728			53			49			53			54
				RPD >20 %	89			9			1			11			1
				RPD >50 %	35			1			0			1			1
				Detect Rate >20 % RDP	12%			17%			2%			21%			2%
				Detect Rate >50 % RDP	5%			2%			0%			2%			2%

Notes:

'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	N (Normal)
Sample Type	FD (Duplicate)
RPD	relative percent difference
m	metres
%	percent
µg/L	microgram per litre
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NA	not applicable
NTU	nephelometric turbidity unit
pH Units	potential of hydrogen units
uS/cm	microsiemens per centimetre
NC	not calculated
RPD % Limit	NC is shown when the RPD was not calculated. The RPD is calculated when the results are 5 times greater than the detection limit. RPD Limit Exceedances are when the RPD is greater than 50%

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 4												TRIBUTARY (ZONE 1)			TRIBUTARY (ZONE 3)		
					Sample Location	SW24-6									TUL-12			SW16-1			SW21-5		
					Sample Date	2025-Sep-15			2025-Jul-17			2025-Aug-22			2025-Jun-18			2025-Jun-22			2025-Sep-17		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SW24-6	25-09-DUP01	RPD %	SW24-6	25-07-DUP02	RPD %	SW24-6	25-08-DUP02	RPD %	TUL-12	25-06-DUP01	RPD %	SW16-1	25-06-DUP04	RPD %	SW21-5	25-09-DUP03	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit																		
Carbon	Dissolved organic carbon	F	mg/L	0.50	50	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC
General	Cation-anion balance	T	%		50	3	3.4	NC	1.1	2.5	NC	3.3	1.4	NC	2.8	0.25	NC	2.3	0.85	NC	4.8	4.4	NC
	Electrical conductivity (lab)	T	uS/cm	2.0	50	84	85	1	97	97	0	83	83	0	120	120	0	100	98	2	78	78	0
	Hardness (as CaCO3)	F	mg/L	0.50	50	34.2	33.8	1	38.3	38	1	37.7	37.7	0	52.9	54.3	3	45.2	45	0	34.7	34.1	2
		T			50	37.5	38.9	4	42.6	40.6	5	39.6	38.9	2	58.1	49.6	16	48.6	44.3	9	38.5	35.3	9
	Ion balance	T	NA	0.010	50	0.94	0.93	1	0.97	0.95	2	1.1	1	10	0.94	1	6	0.95	0.97	2	0.91	0.92	1
	pH (lab)	T	pH Units		50	7.02	6.93	NC	7.31	7.33	NC	7.07	7.16	NC	7.32	7.32	NC	6.9	6.77	NC	7.18	7.2	NC
	Total dissolved solids	T	mg/L	1.0	50	43	43	0	47	48	2	44	45	2	63	62	2	55	54	2	40	38	5
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Kjeldahl Nitrogen	T	mg/L	0.020	50	< 0.020	< 0.020	NC	< 0.020	< 0.020	NC	0.024	0.025	NC	0.056	0.033	NC	0.077	0.049	NC	0.022	< 0.020	NC
	Total suspended solids	T	mg/L	1.0	50	26	35	30	32	29	10	43	42	2	9.2	15	48	72	67	7	2.8	3.2	NC
Inorganics	Alkalinity (bicarbonate)	T	mg/L	1.0	50	31	31	0	32	33	3	29	30	3	52	50	4	39	37	5	40	40	0
	Alkalinity (carbonate)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Alkalinity (P)	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Alkalinity (total as CaCO3)	T	mg/L	1.0	50	25	26	4	26	27	4	24	25	4	42	41	2	32	30	6	33	33	0
	Ammonia (as N)	T	mg/L	0.015	50	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC	< 0.015	< 0.015	NC
	Chloride ion	F	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Fluoride	F	mg/L	0.050	50	0.059	< 0.050	NC	< 0.050	0.051	NC	0.052	0.052	NC	< 0.050	< 0.050	NC	< 0.050	0.085	NC	< 0.050	< 0.050	NC
	Hydroxide	T	mg/L	1.0	50	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC	< 1.0	< 1.0	NC
	Nitrate (as N)	T	mg/L	0.020	50	0.031	0.037	NC	0.044	0.054	NC	0.039	0.042	NC	0.076	0.073	NC	0.054	0.056	NC	< 0.020	< 0.020	NC
	Nitrate and nitrite (as N)	T	mg/L	0.020	50	0.031	0.037	NC	0.044	0.054	NC	0.039	0.042	NC	0.076	0.073	NC	0.054	0.056	NC	< 0.020	< 0.020	NC
	Nitrite (as N)	T	mg/L	0.0050	50	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC
	Nitrogen (total)	T	mg/L	0.020	50	0.05	0.039	NC	0.038	0.04	NC	0.063	0.067	NC	0.133	0.107	22	0.131	0.105	22	0.022	< 0.020	NC
	Orthophosphate (as PO4)	T	mg/L	0.0030	50	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC
	Sulphate	F	mg/L	1.0	50	13	13	0	15	15	0	14	14	0	16	15	6	17	17	0	6.4	5.3	19
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sulphur	F	mg/L	15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				3.0	50	4.1	4.4	NC	5.2	5.1	NC	4.2	3.8	NC	5.3	5.3	NC	5.9	5.3	NC	< 3.0	< 3.0	NC
				30	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				6.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				3.0	50	3.8	3.8	NC	4.7	4.8	NC	3.4	3.3	NC	5.2	4.2	NC	5.4	5.5	NC	< 3.0	< 3.0	NC
				6.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 4												TRIBUTARY (ZONE 1)			TRIBUTARY (ZONE 3)		
					Sample Location	SW24-6									TUL-12			SW16-1			SW21-5		
					Sample Date	2025-Sep-15			2025-Jul-17			2025-Aug-22			2025-Jun-18			2025-Jun-22			2025-Sep-17		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SW24-6	25-09-DUP01	RPD %	SW24-6	25-07-DUP02	RPD %	SW24-6	25-08-DUP02	RPD %	TUL-12	25-06-DUP01	RPD %	SW16-1	25-06-DUP04	RPD %	SW21-5	25-09-DUP03	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit																		
Metals	Aluminum	F	µg/L	0.50	50	31.9	34.3	7	42.8	40.7	5	37.7	38.8	3	15.6	16.6	6	27.7	28.1	1	19	18.4	3
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.50	50	-	-	-	-	-	-	-	-	-	439	351	22	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				3.0	50	1960	1870	5	1190	947	23	2960	2680	10	-	-	-	1370	347	119	128	177	32
	Antimony	F	µg/L	0.020	50	0.107	0.112	5	0.133	0.124	7	0.119	0.112	6	0.264	0.271	3	0.212	0.216	2	0.214	0.212	1
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	0.151	0.151	0	0.134	0.123	9	0.19	0.166	13	0.285	0.267	7	0.392	0.238	49	0.265	0.23	14
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Arsenic	F	µg/L	0.020	50	0.505	0.514	2	0.566	0.549	3	0.388	0.321	19	0.958	0.988	3	0.465	0.453	3	1.48	1.5	1
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	1.61	1.56	3	1.24	1.08	14	1.73	1.69	2	1.57	1.4	11	5.3	1.58	108	1.85	1.6	14
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Barium	F	µg/L	0.020	50	19.5	19.6	1	19.7	19.7	0	20.1	19.9	1	23.4	22.7	3	17.3	16.6	4	9.87	9.89	0
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	-	-	-	-	-	-	-	-	-	28.9	25	14	-	-	-	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	53.5	53.4	0	44.9	41.3	8	76.8	73.2	5	-	-	-	42.7	26.3	48	12	10.8	11
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Beryllium	F	µg/L	0.010	50	< 0.010	< 0.010	NC	< 0.010	< 0.010	NC	< 0.010	< 0.010	NC	< 0.010	< 0.010	NC	< 0.010	< 0.010	NC	< 0.010	< 0.010	NC
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.010	50	0.051	0.051	0	0.024	0.029	NC	0.076	0.075	1	0.011	< 0.010	NC	0.044	0.019	NC	< 0.010	< 0.010	NC
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bismuth	F	µg/L	0.0050	50	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	< 0.0050	< 0.010	NC	-	-	-	-	-	-
				0.010	50	0.053	0.058	9	0.057	0.048	NC	0.068	0.068	0	-	-	-	0.032	0.014	NC	< 0.010	< 0.010	NC
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Boron	F	µg/L	10	50	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC
				100	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		10	50	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC	< 10	< 10	NC
				20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	F	µg/L	0.0050	50	0.0083	0.0084	NC	0.0099	0.011	NC	0.0151	0.0106	NC	0.0209	0.0208	NC	0.0142	0.0147	NC	< 0.0050	< 0.0050	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	0.0448	0.0393	13	0.0406	0.0413	2	0.0556	0.0497	11	0.0377	0.0324	15	0.12	0.0507	81	< 0.0050	< 0.0050	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 4												TRIBUTARY (ZONE 1)			TRIBUTARY (ZONE 3)		
					Sample Location	SW24-6									TUL-12			SW16-1			SW21-5		
					Sample Date	2025-Sep-15			2025-Jul-17			2025-Aug-22			2025-Jun-18			2025-Jun-22			2025-Sep-17		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SW24-6	25-09-DUP01	RPD %	SW24-6	25-07-DUP02	RPD %	SW24-6	25-08-DUP02	RPD %	TUL-12	25-06-DUP01	RPD %	SW16-1	25-06-DUP04	RPD %	SW21-5	25-09-DUP03	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit																		
Metals	Calcium	F	mg/L	0.050	50	11.5	11.3	2	12.8	12.6	2	12.8	12.8	0	18.5	19.1	3	15.6	15.6	0	12.4	12.2	2
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	20	17.1	16	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	11.2	12	7	13.6	12.9	5	11.8	11.8	0	-	-	-	15.7	15.2	3	13.7	12.5	9
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chromium (III+VI)	F	µg/L	0.10	50	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.10	50	3.02	2.85	6	1.77	1.56	13	4.43	4.08	8	0.87	0.77	12	3.29	0.95	110	0.3	0.36	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cobalt	F	µg/L	0.0050	50	0.0261	0.0261	0	0.038	0.0366	4	0.0432	0.0363	17	0.0153	0.0169	NC	0.0363	0.0436	18	< 0.0050	< 0.0050	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	0.3	0.288	4	-	-	-	-	-	-
				0.010	50	1.12	1.09	3	0.785	0.65	19	1.38	1.35	2	-	-	-	1.96	0.57	110	0.078	0.098	23
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Copper	F	µg/L	0.050	50	0.126	0.126	NC	0.162	0.152	NC	0.142	0.131	NC	0.253	0.267	5	0.173	0.215	NC	0.103	0.1	NC
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	1.66	1.67	1	-	-	-	-	-	-
				0.10	50	4.4	4.26	3	3.19	2.71	16	5.14	4.86	6	-	-	-	5.68	1.97	97	0.46	0.42	NC
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Iron	F	µg/L	1.0	50	3.8	4.9	NC	7.8	7.9	1	6.4	8.1	23	2.1	2.8	NC	9.3	10.6	13	1.2	1.1	NC
				10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		1.0	50	-	-	-	-	-	-	-	-	-	550	476	14	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	2490	2390	4	1440	1170	21	3210	3080	4	-	-	-	2580	531	132	138	189	31
	Lead	F	µg/L	0.0050	50	0.0087	0.0093	NC	0.0155	0.0157	NC	0.0146	0.0167	NC	0.0062	< 0.0050	NC	0.0143	0.0164	NC	< 0.0050	< 0.0050	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	0.136	0.139	2	-	-	-	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.020	50	1.46	1.47	1	1.16	0.964	18	1.8	1.71	5	-	-	-	1.53	0.578	90	0.04	0.034	NC
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lithium	F	µg/L	0.50	50	< 0.50	< 0.50	NC	0.51	< 0.50	NC	0.52	< 0.50	NC	< 0.50	< 0.50	NC	0.57	0.58	NC	< 0.50	< 0.50	NC
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.50	50	1.55	1.5	NC	1.09	1.22	NC	2.57	2.5	NC	0.74	0.63	NC	1.89	0.91	NC	< 0.50	< 0.50	NC
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Magnesium	F	mg/L	0.050	50	1.34	1.32	2	1.53	1.55	1	1.42	1.4	1	1.63	1.63	0	1.49	1.46	2	0.925	0.921	0
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	1.99	1.63	20	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	2.28	2.19	4	2.09	2.07	1	2.43	2.31	5	-	-	-	2.26	1.53	39	1.06	0.96	NC
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 4												TRIBUTARY (ZONE 1)			TRIBUTARY (ZONE 3)		
					Sample Location	SW24-6									TUL-12			SW16-1			SW21-5		
					Sample Date	2025-Sep-15			2025-Jul-17			2025-Aug-22			2025-Jun-18			2025-Jun-22			2025-Sep-17		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SW24-6	25-09-DUP01	RPD %	SW24-6	25-07-DUP02	RPD %	SW24-6	25-08-DUP02	RPD %	TUL-12	25-06-DUP01	RPD %	SW16-1	25-06-DUP04	RPD %	SW21-5	25-09-DUP03	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit																		
Metals	Manganese	F	µg/L	0.050	50	3.79	3.75	1	4.32	4.44	3	3.93	3.86	2	3.24	3.57	10	4.67	5.14	10	1.51	1.56	3
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	18.6	18	3	-	-	-	-	-	-
				0.10	50	58	56.8	2	39.9	33.6	17	72.6	68.7	6	-	-	-	75.7	23.9	104	5.63	6.64	16
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mercury	F	µg/L	0.0019	50	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC
		T			50	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	< 0.0019	NC	< 0.0019	0.0021	NC	0.011	0.0118	7	< 0.0019	< 0.0019	NC
	Molybdenum	F	µg/L	0.050	50	2.04	2.14	5	2.5	2.49	0	2.27	2.21	3	1.58	1.44	9	2.34	2.37	1	0.428	0.444	4
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	1.93	2.02	5	2.31	2.32	0	2.24	2.11	6	1.55	1.29	18	2.45	2.4	2	0.499	0.423	16
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	F	µg/L	0.020	50	0.236	0.242	3	0.313	0.315	1	0.305	0.291	5	0.131	0.134	2	0.766	0.768	0	0.028	0.029	NC
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.020	50	-	-	-	-	-	-	-	-	-	0.991	0.79	23	-	-	-	-	-	-
				0.040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.10	50	3.58	3.44	4	2.54	2.2	14	4.18	3.99	5	-	-	-	11.3	2.99	116	0.25	0.26	NC
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Phosphorus	F	mg/L	0.0030	50	< 0.0030	< 0.0030	NC	0.0054	< 0.0030	NC	< 0.0030	0.048	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC	< 0.0030	< 0.0030	NC
		T	µg/L	2.0	50	-	-	-	-	-	-	-	-	-	23	25.8	11	-	-	-	-	-	-
				25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				4.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	38.3	37.5	2	32.3	29.8	8	39.3	39.4	0	-	-	-	62.4	25.6	84	12.4	11.8	NC
			mg/L	0.0030	50	0.046	0.044	4	0.042	0.043	2	0.047	0.047	0	-	-	-	-	-	-	0.0088	0.0087	NC
	Potassium	F	mg/L	0.050	50	0.895	0.906	1	1	0.994	1	0.917	0.904	1	0.701	0.684	2	0.72	0.722	0	0.163	0.158	NC
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	0.758	0.64	NC	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	1.29	1.3	1	1.32	1.23	NC	1.76	1.67	5	-	-	-	0.95	0.77	NC	< 0.25	< 0.25	NC
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Selenium	F	µg/L	0.040	50	0.147	0.143	NC	0.173	0.176	NC	0.163	0.171	NC	0.228	0.226	1	0.186	0.176	NC	0.123	0.115	NC
				0.080	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.40	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.040	50	0.174	0.172	NC	0.197	0.177	NC	0.151	0.169	NC	0.251	0.212	17	0.275	0.195	NC	0.138	0.125	NC
				0.080	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Silicon	F	µg/L	100	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				250	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	792	782	1	869	866	0	908	922	2	959	922	4	1010	982	3	435	430	1
				500	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		100	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				250	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				50	50	3570	3500	2	2940	2290	25	7990	8570	7	1650	1230	29	2930	1420	69	619	655	6

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 4												TRIBUTARY (ZONE 1)			TRIBUTARY (ZONE 3)		
					Sample Location	SW24-6									TUL-12			SW16-1			SW21-5		
					Sample Date	2025-Sep-15			2025-Jul-17			2025-Aug-22			2025-Jun-18			2025-Jun-22			2025-Sep-17		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SW24-6	25-09-DUP01	RPD %	SW24-6	25-07-DUP02	RPD %	SW24-6	25-08-DUP02	RPD %	TUL-12	25-06-DUP01	RPD %	SW16-1	25-06-DUP04	RPD %	SW21-5	25-09-DUP03	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit																		
Metals	Silver	F	µg/L	0.0050	50	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC	< 0.0050	< 0.0050	NC
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0050	50	-	-	-	-	-	-	-	-	-	< 0.0050	< 0.010	NC	-	-	-	-	-	-
				0.010	50	0.017	0.018	NC	0.016	0.015	NC	0.022	0.024	NC	-	-	-	0.026	0.011	NC	< 0.010	< 0.010	NC
				0.050	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sodium	F	mg/L	0.050	50	0.654	0.672	3	0.647	0.641	1	0.682	0.667	2	0.747	0.744	0	0.572	0.56	2	0.291	0.288	1
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	-	-	-	-	-	-	-	-	-	0.806	0.66	NC	-	-	-	-	-	-
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	0.79	0.78	NC	0.78	0.76	NC	0.99	0.91	NC	-	-	-	0.62	0.52	NC	0.32	0.28	NC
				1.3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Strontium	F	µg/L	0.050	50	55.5	55.6	0	59.2	58.9	1	58.6	57.8	1	75.9	75.3	1	76.9	76.5	1	51.8	50.6	2
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.050	50	55.4	58.3	5	62.8	60.2	4	60.5	58.1	4	80.5	69.1	15	81.2	81.4	0	57.3	49.4	15
				0.10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Thallium	F	µg/L	0.0020	50	0.0048	0.0048	NC	0.006	0.0052	NC	0.0058	0.0049	NC	0.0033	0.0031	NC	0.0095	0.0093	NC	< 0.0020	< 0.0020	NC
				0.0040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0020	50	0.0234	0.0267	13	0.0206	0.0162	24	0.0411	0.036	13	0.0054	0.0044	NC	0.052	0.0231	77	< 0.0020	< 0.0020	NC
				0.0040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tin	F	µg/L	0.20	50	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC
				0.40	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.20	50	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC
				0.40	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Titanium	F	µg/L	0.50	50	< 0.50	< 0.50	NC	0.62	0.54	NC	0.56	0.6	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC	< 0.50	< 0.50	NC
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.5	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.50	50	-	-	-	-	-	-	-	-	-	11.4	12.6	10	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				10	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	109	102	7	75.4	58.4	25	183	171	7	-	-	-	39.9	15.3	89	3.1	6.6	NC
	Uranium	F	µg/L	0.0020	50	0.197	0.231	16	0.305	0.297	3	0.277	0.268	3	0.328	0.32	2	0.242	0.239	1	0.154	0.163	6
				0.0040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.010	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.020	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.0020	50	-	-	-	-	-	-	-	-	-	0.392	0.345	13	-	-	-	-	-	-
				0.0040	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.0050	50	0.391	0.414	6	0.456	0.391	15	0.512	0.489	5	-	-	-	0.446	0.316	34	0.191	0.165	15
				0.025	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vanadium	F	µg/L	0.20	50	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC	< 0.20	< 0.20	NC
				0.40	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.20	50	5.45	5.17	5	3.24	2.7	18	8.35	7.6	9	1.11	0.91	NC	4.18	1.01	122	0.38	0.55	NC
				0.40	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 7: Relative Percent Differences in Surface Water Duplicates

						Zone 4												TRIBUTARY (ZONE 1)			TRIBUTARY (ZONE 3)		
					Sample Location	SW24-6									TUL-12			SW16-1			SW21-5		
					Sample Date	2025-Sep-15			2025-Jul-17			2025-Aug-22			2025-Jun-18			2025-Jun-22			2025-Sep-17		
					Sample Type	N	FD		N	FD		N	FD		N	FD		N	FD		N	FD	
					Sample Name	SW24-6	25-09-DUP01	RPD %	SW24-6	25-07-DUP02	RPD %	SW24-6	25-08-DUP02	RPD %	TUL-12	25-06-DUP01	RPD %	SW16-1	25-06-DUP04	RPD %	SW21-5	25-09-DUP03	RPD %
Parameter Groups	Parameters	Filtered or Total	Result Unit	RDL	RPD % Limit																		
Metals	Zinc	F	µg/L	0.10	50	< 0.10	0.62	NC	0.13	0.17	NC	0.41	0.16	NC	0.86	0.99	14	0.16	0.19	NC	0.32	< 0.10	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.10	50	-	-	-	-	-	-	-	-	-	4.46	5	NC	-	-	-	-	-	-
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	10.3	9.9	4	6.2	5.6	10	13.3	12.4	7	-	-	-	13.7	4.5	NC	1	< 1.0	NC
				5.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Zirconium	F	µg/L	0.10	50	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1.0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		T		0.10	50	0.12	< 0.10	NC	0.15	< 0.10	NC	0.72	0.68	6	0.16	< 0.10	NC	< 0.10	< 0.10	NC	< 0.10	< 0.10	NC
				0.20	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				0.50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Total																		
				Count	728			51			49			53			48			49			32
				RPD >20 %	89			1			5			1			5			20			3
				RPD >50 %	35			0			0			0			0			15			0
				Detect Rate >20 % RDP	12%			2%			10%			2%			10%			41%			9%
				Detect Rate >50 % RDP	5%			0%			0%			0%			0%			31%			0%

Notes:

'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	N (Normal)
Sample Type	FD (Duplicate)
RPD	relative percent difference
m	metres
%	percent
µg/L	microgram per litre
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NA	not applicable
NTU	nephelometric turbidity unit
pH Units	potential of hydrogen units
uS/cm	microsiemens per centimetre
NC	not calculated
RPD % Limit	NC is shown when the RPD was not calculated. The RPD is calculated when the results are 5 times greater than the detection limit. RPD Limit Exceedances are when the RPD is greater than 50%

Table 8: Summary Statistics by Sampling Location

Parameter Groups			Carbon	Field					General										Inorganics									
Parameters			Dissolved organic carbon	DO (field)	pH (field)	Specific conductivity (field)	Temp (field)	Turbidity (field)	Cation-anion balance	Electrical conductivity (lab)	Hardness (as CaCO3)	Hardness (as CaCO3)	Ion balance	ORP (field)	pH (lab)	Total dissolved solids	Total Kjeldahl Nitrogen	Total suspended solids	Alkalinity (bicarbonate)	Alkalinity (carbonate)	Alkalinity (P)	Alkalinity (total as CaCO3)	Ammonia (as N)	Chloride ion	Fluoride	Hydroxide
Filtered or Total			F	T	T	T	T	T	T	T	F	T	T	T	T	T	T	T	T	T	T	T	T	F	F	T
RDL			0.5							2	0.5	0.5	0.01			1 - 10	0.02 - 0.5	1	1	1	1	1	0.015	1	0.05	1
Result Unit			mg/L	mg/L	pH Units	µS/cm	deg C	NTU	%	uS/cm	mg/L	mg/L	NA	mV	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Location Groups	Location Name	Summary Statistic																										
Zone 1	TUL-00/W10	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	13.68	6.83	65.90	1.10	46.40	0.76	67.00	27.80	34.20	0.94	109.20	6.59	35.00	0.01	29.00	22.00	0.50	0.50	18.00	0.01	0.50	0.03	0.50
		Maximum	0.25	14.36	8.06	83.30	3.50	93.00	5.50	91.00	35.90	40.20	1.10	240.00	7.11	45.00	0.14	68.00	29.00	0.50	0.50	24.00	0.01	0.50	0.06	0.50
		Average	0.25	14.05	7.72	74.30	2.15	73.90	2.51	77.50	32.33	37.25	1.00	179.73	6.87	40.00	0.05	48.25	26.00	0.50	0.50	21.50	0.01	0.50	0.03	0.50
		Median	0.25	14.08	8.00	74.00	2.00	78.10	1.88	76.00	32.80	37.30	0.98	184.85	6.89	40.00	0.03	48.00	26.50	0.50	0.50	22.00	0.01	0.50	0.03	0.50
		Standard Deviation	0.00	0.29	0.59	8.33	1.15	20.43	2.23	10.75	3.60	2.64	0.07	54.63	0.22	5.23	0.06	16.66	3.16	0.00	0.00	2.65	0.00	0.00	0.02	0.00
	SW21-2	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	11.73	6.70	44.20	5.40	29.51	1.10	48.00	20.70	23.80	0.90	119.90	6.43	24.00	0.01	31.00	17.00	0.50	0.50	14.00	0.01	0.50	0.03	0.50
		Maximum	0.25	13.19	7.69	59.50	8.20	89.00	5.10	65.00	27.20	32.00	1.00	280.90	6.82	34.00	0.07	220.00	25.00	0.50	0.50	21.00	0.02	0.50	0.03	0.50
		Average	0.25	12.12	7.16	53.40	7.33	63.13	3.03	56.50	24.38	26.93	0.95	202.35	6.68	29.00	0.05	108.25	21.50	0.50	0.50	18.00	0.01	0.50	0.03	0.50
		Median	0.25	11.78	7.12	54.95	7.85	67.00	2.95	56.50	24.80	25.95	0.96	204.30	6.74	29.00	0.05	91.00	22.00	0.50	0.50	18.50	0.01	0.50	0.03	0.50
		Standard Deviation	0.00	0.71	0.41	6.93	1.29	24.75	1.97	7.85	3.00	3.60	0.06	65.77	0.17	4.16	0.03	79.71	3.42	0.00	0.00	2.94	0.00	0.00	0.00	0.00
	TUL-03	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	12.57	7.25	66.30	1.10	38.20	2.00	68.00	28.00	31.90	0.95	166.50	6.86	35.00	0.01	22.00	25.00	0.50	0.50	20.00	0.01	0.50	0.03	0.50
		Maximum	0.25	14.21	7.97	83.50	2.70	85.00	2.60	92.00	35.70	39.70	1.00	251.50	7.36	45.00	0.06	57.00	31.00	0.50	0.50	25.00	0.04	0.50	0.06	0.50
		Average	0.25	13.34	7.52	74.38	1.85	67.00	2.20	78.00	32.30	35.50	0.97	202.35	7.12	40.50	0.03	40.50	27.50	0.50	0.50	22.25	0.02	0.50	0.03	0.50
		Median	0.25	13.29	7.42	73.85	1.80	72.40	2.10	76.00	32.75	35.20	0.96	195.70	7.12	41.00	0.03	41.50	27.00	0.50	0.50	22.00	0.01	0.50	0.03	0.50
		Standard Deviation	0.00	0.69	0.31	8.42	0.68	20.21	0.28	10.86	3.32	3.29	0.02	37.73	0.24	4.80	0.03	14.34	2.65	0.00	0.00	2.22	0.02	0.00	0.02	0.00
	TUL-03	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	13.16	6.86	67.30	0.80	47.83	1.60	69.00	28.40	32.20	0.92	161.20	6.75	36.00	0.01	21.00	26.00	0.50	0.50	21.00	0.01	0.50	0.03	0.50
		Maximum	0.25	14.60	7.96	82.00	2.90	75.00	3.80	92.00	34.90	36.60	1.00	250.70	7.29	45.00	0.20	52.00	30.00	0.50	0.50	25.00	0.01	0.50	0.06	0.50
		Average	0.25	13.98	7.41	74.50	1.85	61.36	2.90	78.50	32.28	34.80	0.95	213.38	6.95	40.75	0.06	33.75	27.75	0.50	0.50	22.75	0.01	0.50	0.04	0.50
		Median	0.25	14.09	7.41	74.35	1.85	61.30	3.10	76.50	32.90	35.20	0.93	220.80	6.89	41.00	0.02	31.00	27.50	0.50	0.50	22.50	0.01	0.50	0.04	0.50
		Standard Deviation	0.00	0.60	0.46	7.33	0.97	11.18	0.93	10.66	2.87	2.06	0.04	42.57	0.25	4.43	0.09	13.67	2.06	0.00	0.00	1.71	0.00	0.00	0.02	0.00
	TUL-06/ SW163	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	12.30	6.19	60.10	3.90	44.00	0.10	66.00	29.40	31.50	0.94	147.20	6.75	35.00	0.01	34.00	25.00	0.50	0.50	20.00	0.01	0.50	0.03	0.50
		Maximum	0.25	13.70	7.51	85.00	7.50	89.00	3.10	81.00	33.30	36.00	1.00	272.10	7.04	41.00	0.18	75.00	28.00	0.50	0.50	23.00	0.01	0.50	0.08	0.50
		Average	0.25	12.73	6.97	71.60	6.30	61.44	1.75	74.25	30.98	33.75	0.97	216.15	6.88	38.00	0.06	49.25	26.75	0.50	0.50	21.75	0.01	0.50	0.04	0.50
		Median	0.25	12.46	7.08	70.65	6.90	56.38	1.90	75.00	30.60	33.75	0.96	222.65	6.87	38.00	0.03	44.00	27.00	0.50	0.50	22.00	0.01	0.50	0.03	0.50
		Standard Deviation	0.00	0.66	0.62	10.49	1.68	19.50	1.24	6.99	1.88	1.91	0.03	51.77	0.12	2.58	0.08	19.26	1.26	0.00	0.00	1.26	0.00	0.00	0.03	0.00
TRIBUTARY (ZONE 1)	SW16-1	Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Minimum	0.25	12.44	7.14	85.60	3.20	33.20	1.20	92.00	39.80	44.30	0.95	96.70	6.82	48.00	0.01	18.00	34.00	0.50	0.50	28.00	0.01	0.50	0.03	0.50
		Maximum	0.25	13.64	7.51	95.50	5.50	61.20	2.30	100.00	45.20	48.60	0.97	269.50	7.26	55.00	0.08	72.00	39.00	0.50	0.50	32.00	0.01	0.50	0.08	0.50
		Average	0.25	12.96	7.35	91.83	4.17	48.80	1.60	97.33	42.97	46.00	0.96	197.57	6.99	52.33	0.04	46.00	36.00	0.50	0.50	29.67	0.01	0.50	0.06	0.50
		Median	0.25	12.79	7.40	94.40	3.80	52.00	1.30	100.00	43.90	45.10	0.97	226.50	6.90	54.00	0.03	48.00	35.00	0.50	0.50	29.00	0.01	0.50	0.07	0.50
		Standard Deviation	0.00	0.62	0.19	5.43	1.19	14.27	0.61	4.62	2.82	2.29	0.01	89.96	0.23	3.79	0.03	27.06	2.65	0.00	0.00	2.08	0.00	0.00	0.03	0.00
	W27	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	11.14	6.67	100.50	6.20	10.12	0.95	110.00	48.90	52.40	0.95	70.10	7.05	57.00	0.01	10.00	40.00	0.50	0.50	33.00	0.01	0.50	0.11	0.50
		Maximum	0.70	12.22	7.80	156.10	9.70	83.00	2.90	160.00	79.10	76.90	1.10	221.60	7.57	89.00	0.06	75.00	53.00	0.50	0.50	43.00	0.01	0.50	0.14	0.50
		Average	0.36	11.46	7.43	128.18	7.80	37.69	1.81	137.50	62.35	61.40	1.00	156.65	7.37	72.50	0.04	42.75	47.50	0.50	0.50	38.75	0.01	0.50	0.13	0.50
		Median	0.25	11.25	7.62	128.05	7.65	28.81	1.70	140.00	60.70	58.15	0.97	167.45	7.43	72.00	0.05	43.00	48.50	0.50	0.50	39.50	0.01	0.50	0.13	0.50
		Standard Deviation	0.23	0.51	0.52	23.04	1.53	34.67	0.87	20.62	12.73	10.72	0.07	66.85	0.22	13.30	0.02	36.67	6.56	0.00	0.00	5.06	0.00	0.00	0.02	0.00
	SW24-2	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	10.99	7.38	81.90	6.90	0.00	1.20	84.00	39.90	42.60	0.92	155.60	7.15	44.00	0.01	0.50	51.00	0.50	0.50	42.00	0.01	0.50	0.03	0.50
		Maximum	0.64	12.36	8.00	125.50	10.10	0.23	5.00	130.00	65.60	54.00	1.10	265.60	7.88	66.00	0.08	2.00	70.00	0.50	0.50	57.00	0.01	0.50	0.03	0.50
		Average	0.35	11.61	7.68	107.30	8.68	0.11	2.93	113.50	53.95	50.30	0.99	213.05	7.61	57.50	0.04	0.88	63.00	0.50	0.50	51.75	0.01	0.50	0.03	0.50
		Median	0.25	11.55	7.68	110.90	8.85	0.10	2.75	120.00	55.15	52.30	0.97	215.50	7.70	60.00	0.04	0.50	65.50	0.50	0.50	54.00	0.01	0.50	0.03	0.50
		Standard Deviation	0.20	0.57	0.33	19.52	1.37	0.09	1.75	21.81	11.11	5.21	0.08	45.57	0.32	10.28	0.03	0.75	8.76	0.00	0.00	7.09	0.00	0.00	0.00	0.00
Effluent	5200 LEVEL ADIT	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	11.81	2.77	1515.00	6.30	1.21	1.90	1600.00	352.00	335.00	0.86	530.70	2.97	920.00	0.01	14.00	0.50	0.50	0.50	0.50	0.01	0.50	1.10	0.50
		Maximum	0.25	12.65	3.09	1612.00	6.40	2.40	7.20	1700.00	414.00	422.00	1.10	565.30	3.06	940.00	0.21	23.00	0.50	0.50	0.50	0.50	0.20	1.20	1.20	0.50
		Average	0.25	12.26	2.92	1565.00	6.38	2.06	4.23	1650.00	397.25	390.50	1.02	546.85	3.00	927.50	0.06	18.75	0.50	0.50	0.50	0.50	0.13	0.83	1.13	0.50
		Median	0.25	12.30	2.92	1566.50	6.40	2.31	3.90	1650.00	411.50	402.50	1.05	545.70	2.98	925.00	0.01	19.00	0.50	0.50	0.50	0.50	0.16	0.80	1.10	0.50
		Standard Deviation	0.00	0.36	0.15	41.14	0.05	0.57	2.40	57.74	30.26	40.44	0.11	14.74	0.04	9.57	0.10	4.43	0.00	0.00	0.00	0.00	0.08	0.38	0.05	0.00
	5400 LEVEL ADIT	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4
		Minimum	0.25	11.73	3.55	438.00	6.00	26.23	0.11	500.00	128.00	125.00	0.94	319.90	3.89	260.00	0.09	27.00	0.50	0.50	0.50	0.00	0.01	1.60	0.36	0.50
		Maximum	0.25	12.57	5.43	512.00	6.60	39.00	3.30	520.00	144.00	138.00	1.10	472.50	4.60	280.00	0.23	31.00	0.50	0.50	0.50	0.00	0.16	11.00	0.49	0.50
		Average	0.25	12.30	4.47	480.95	6.38	33.00	2.30	510.00	137.50	130.25	1.01	393.50	4.33	267.50	0.16	29.50	0.50	0.50	0.50	#DIV/0!	0.06	7.50	0.41	0.50
		Median	0.25	12.45	4.44	486.90	6.45	32.39	2.90	510.00	139.00	129.00	1.00	390.80	4.42	265.00	0.16	30.00	0.50	0.50	0.50	#NUM!	0.04	8.70	0.39	0.50
		Standard Deviation	0.00	0.39	0.81	31.82	0.26	4.55	1.48	8.16	7.51	6.02	0.07	67.72	0.31	9.57	0.06	1.73	0.00	0.00	0.00	#DIV/0!	0.07	4.22	0.06	0.00
	5400 CLEAN WATER PIPE	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Minimum	0.25	11.77	6.49	433.30	7.30	13.20	0.71	440.00	155.00	156.00	1.00	274.60	6.30	240.00	0.07	14.00	43.00	0.50	0.50	35.00	0.01	32.00	0.53	0.50
		Maximum	0.25	11.77	6.49	433.30	7.30	13.20	0.71	440.00	155.00	156.00	1.00	274.60	6.30	240.00	0.07	14.00	43.00	0.50	0.50	35.00	0.01	32.00	0.53	0.50
		Average	0.25	11.77	6.49	433.30	7.30	13.20	0.71	440.00	155.00	156.00	1.00	274.60	6.30	240.00	0.07	14.00	43.00	0.50	0.50	35.00	0.01	32.00	0.53	0.50
		Median	0.25	11.77	6.49	433.30	7.30	13.20	0.71	440.00	155.00	156.00	1.00	274.60	6.30	240.00	0.07	14.00	43.00	0.50	0.50	35.00	0.01	32.00	0.53	0.50
		Standard Deviation	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	5900 LEVEL ADIT	Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Minimum	0.25	12.64	6.88	298.80	3.90	2.12	0.60	300.00	143.00	129.00	0.98	82.60	7.06	170.00	0.01	2.00	67.00	0.50	0.50	55.00	0.01	0.50	0.10	0.50
		Maximum	0.51	12.80	7.58	314.90	4.20	2.62	3.10	330.00	152.00	146.00	1.10	259.30	7.57	190.00	0.11	8.80	72.00	0.50	0.50	59.00	0.01	0.50	0.11	0.50
		Average	0.34	12.71	7.33	306.57	4.03	2.43	2.10	316.67	146.00	135.67	1.03	169.03	7.38	183.33	0.06	5.73	68.67	0.50	0.50	56.33	0.01	0.50	0.10	0.50
		Median	0.25	12.68	7.54	306.00	4.00	2.54	2.60	320.00	143.00	132.00	1.00	165.20	7.52	190.00	0.05	6.40	67.00	0.50	0.50	55.00	0.01	0.50	0.10	0.50
		Standard Deviation	0.15	0.08	0.39	8.06	0.15	0.27	1.32	15.28	5.20	9.07	0.06	88.41	0.28	11.55	0.05	3.45	2.89	0.00	0.00	2.31	0.00	0.00	0.01	0.00
	SE2	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4
		Minimum	0.25	10.65	3.26	649.00	7.30	21.17	0.66	670.00	159.00	157.00	0.95	495.50	3.58	330.00	0.06	19.00	0.50	0.50	0.50	0.00	0.01	6.10	0.45	0.50
		Maximum	0.25	12.46	3.57	700.00	15.20	29.00	2.80	730.00	186.00	180.00	1.10	515.00	3.86	380.00	0.18	28.00	0.50	0.50	0.50	0.00	0.02	7.30	0.56	0.50
		Average	0.25	11.86	3.39	673.50	9.80	25.42	1.73	695.00	175.75	166.50	1.01	507.70	3.68	355.00	0.13	23.00	0.50	0.50	0.50	#DIV/0!	0.01	6.75	0.51	0.50
		Median	0.25	12.17	3.37	672.50	8.35	25.76	1.72	690.00	179.00	164.50	1.00	510.15	3.64	355.00	0.14	22.50	0.50	0.50	0.50	#NUM!	0.01	6.80	0.52	0.50
		Standard Deviation	0.00	0.82	0.13	26.24	3.63	3.23	1.08	30.00	12.63	10.34	0.06	8.76	0.12	23.80	0.06	3.92	0.00	0.00	0.00	#DIV/0!	0.01	0.50	0.06	0.00
	WTP POND	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	1.20	11.48	7.34	458.70	12.70	4.59	0.11	480.00	221.00	196.00	0.99	168.30	7.31	290.00	0.07	2.00	67.00	0.50	0.50	55.00	0.01	0.50	0.09	0.50
		Maximum	1.60	13.73	8.29	512.00	20.20	8.33	4.10	560.00	252.00	249.00	1.10	276.70	7.72	330.00	0.16	3.60	75.00	0.50	0.50	62.00	0.01	0.50	0.11	0.50
		Average	1.40	12.17	7.88	487.38	16.35	5.96	1.70	512.50	244.00	215.25	1.02	212.10	7.52	312.50	0.11	2.60	70.25	0.50	0.50	58.00	0.01	0.50	0.10	0.50
		Median	1.40	11.74	7.94	489.40	16.25	5.47	1.30	505.00	251.50	208.00	1.00	201.70	7.52	315.00	0.11	2.40	69.50	0.50	0.50	57.50	0.01	0.50	0.10	0.50
		Standard Deviation	0.18	1.06	0.40	26.64	3.10	1.70	1.79	35.94	15.34	24.88	0.05	45.97	0.17	17.08	0.05	0.69	3.40	0.00	0.00	2.94	0.00	0.00	0.01	0.00
	400 LEVEL ADI	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Minimum	0.25	12.32	7.84	130.60	5.30	0.61	2.20	130.00	66.70	61.90	1.00	202.40	7.75	73.00	0.04	2.80	66.00	0.50	0.50	55.00	0.01	0.50	0.03	0.50
		Maximum	0.25	12.32	7.84	130.60	5.30	0.61	2.20	130.00	66.70	61.90	1.00	202.40	7.75	73.00	0.04	2.80	66.00	0.50	0.50	55.00	0.01	0.50	0.03	0.50
		Average	0.25	12.32	7.84	130.60	5.30	0.61	2.20	130.00	66.70	61.90	1.00	202.40	7.75	73.00	0.04	2.80	66.00	0.50	0.50	55.00	0.01	0.50	0.03	0.50
		Median	0.25	12.32	7.84	130.60	5.30	0.61	2.20	130.00	66.70	61.90	1.00	202.40	7.75	73.00	0.04	2.80	66.00	0.50	0.50	55.00	0.01	0.50	0.03	0.50
		Standard Deviation	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Zone 2	SW24-1	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	12.76	6.94	66.50	1.20	35.91	0.71	68.00	27.70	31.70	0.94	192.50	6.79	35.00	0.01	14.00	25.00	0.50	0.50	20.00	0.01	0.50	0.03	0.50
		Maximum	0.25	14.27	7.88	90.50	6.20	74.00	2.80	99.00	39.30	43.10	1.00	277.30	7.37	49.00	0.05	49.00	34.00	0.50	0.50	28.00	0.01	0.50	0.09	0.50
		Average	0.25	13.45	7.37	77.78	3.15	53.63	1.80	80.50	33.70	35.80	0.97	228.53	7.00	41.75	0.02	34.75	29.25	0.50	0.50	23.75	0.01	0.50	0.05	0.50
		Median	0.25	13.39	7.33	77.05	2.60	52.30	1.85	77.50	33.90	34.20	0.96	222.15	6.92	41.50	0.01	38.00	29.00	0.50	0.50	23.50	0.01	0.50	0.04	0.50
		Standard Deviation	0.00	0.65	0.39	10.66	2.16	19.22	0.88	13.63	4.84	5.01	0.03	39.42	0.26	6.08	0.02	15.56	4.03	0.00	0.00	3.50	0.00	0.00	0.03	0.00
	SW24-11	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	12.80	6.50	74.80	2.50	62.00	0.53	79.00	32.60	36.00	0.93	190.90	6.92	41.00	0.01	32.00	29.00	0.50	0.50	23.00	0.01	0.50	0.03	0.50
		Maximum	0.25	13.78	7.83	116.60	6.40	71.70	3.40	120.00	51.70	49.20	1.10	283.60	7.33	64.00	0.10	74.00	43.00	0.50	0.50	35.00	0.01	0.50	0.10	0.50
		Average	0.25	13.38	7.24	89.73	3.68	65.81	2.51	94.50	40.45	41.33	0.99	228.63	7.10	49.25	0.04	44.75	33.25	0.50	0.50	27.00	0.01	0.50	0.05	0.50
		Median	0.25	13.47	7.32	83.75	2.90	64.78	3.05	89.50	38.75	40.05	0.96	220.00	7.08	46.00	0.04	36.50	30.50	0.50	0.50	25.00	0.01	0.50	0.04	0.50
		Standard Deviation	0.00	0.41	0.55	18.73	1.83	4.14	1.33	18.73	8.05	5.91	0.08	40.70	0.17	10.24	0.04	19.82	6.65	0.00	0.00	5.48	0.00	0.00	0.04	0.00
	W11	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	0.25	9.98	5.06	205.10	8.10	7.79	0.99	220.00	78.20	76.30	0.97	189.60	5.80	110.00	0.01	6.80	2.00	0.50	0.50	1.60	0.01	1.00	0.11	0.50
		Maximum	0.25	11

Table 8: Summary Statistics by Sampling Location

Location Groups	Location Name	Summary Statistic	Inorganics								Metals																	
		Parameters	Nitrate (as N)	Nitrate and nitrite (as N)	Nitrite (as N)	Nitrogen (total)	Orthophosphate (as PO4)	Sulphate	Sulphur	Sulphur	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Bismuth	Bismuth	Boron	Boron	Cadmium	Cadmium
		Filtered or Total	T	T	T	T	T	F	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T
		RDL	0.02 - 0.5	0.02 - 0.5	0.005 - 0.13	0.02 - 0.4	0.003	1 - 10	3 - 60	3 - 60	0.5 - 10	0.5 - 60	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.02 - 0.4	0.01 - 0.2	0.01 - 0.2	0.005 - 0.1	0.005 - 0.2	10 - 200	10 - 200	0.005 - 0.1	0.005 - 0.1
		Result Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Zone 1		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	TUL-00/W10	Minimum	0.03	0.03	0.00	0.04	0.00	11.00	3.30	3.00	47.90	1130.00	0.09	0.11	0.35	1.18	14.80	40.30	0.01	0.03	0.00	0.05	5.00	5.00	0.01	0.04
		Maximum	0.04	0.04	0.00	0.18	0.01	15.00	5.30	5.00	59.40	5650.00	0.11	0.22	0.53	2.77	17.90	117.00	0.01	0.15	0.00	0.10	5.00	10.00	0.01	0.08
		Average	0.04	0.04	0.00	0.09	0.00	13.25	4.23	3.98	52.18	2520.00	0.10	0.15	0.43	1.76	16.00	66.15	0.01	0.07	0.00	0.08	5.00	6.25	0.01	0.06
		Median	0.04	0.04	0.00	0.07	0.00	13.50	4.15	3.95	50.70	1650.00	0.10	0.13	0.42	1.54	15.65	53.65	0.01	0.04	0.00	0.08	5.00	5.00	0.01	0.06
		Standard Deviation	0.00	0.00	0.00	0.06	0.00	2.06	0.90	0.90	5.01	2123.80	0.01	0.05	0.08	0.71	1.33	34.72	0.00	0.06	0.00	0.02	0.00	2.50	0.00	0.01
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	SW21-2	Minimum	0.01	0.01	0.00	0.01	0.00	7.10	1.50	1.50	8.45	339.00	0.02	0.03	0.04	0.18	27.40	36.70	0.01	0.01	0.00	0.01	5.00	5.00	0.01	0.02
		Maximum	0.04	0.04	0.00	0.10	0.00	10.00	3.30	3.30	12.40	1980.00	0.04	0.06	0.12	0.56	35.20	81.60	0.01	0.05	0.00	0.02	5.00	5.00	0.02	0.05
		Average	0.02	0.02	0.00	0.06	0.00	8.53	2.38	1.95	9.80	913.00	0.03	0.04	0.08	0.35	30.00	58.10	0.01	0.02	0.00	0.01	5.00	5.00	0.01	0.04
		Median	0.02	0.02	0.00	0.07	0.00	8.50	2.35	1.50	9.18	666.50	0.03	0.04	0.07	0.33	28.70	57.05	0.01	0.02	0.00	0.01	5.00	5.00	0.01	0.04
		Standard Deviation	0.01	0.01	0.00	0.04	0.00	1.23	1.01	0.90	1.79	763.32	0.01	0.02	0.04	0.19	3.58	23.25	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.02
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	TUL-03	Minimum	0.03	0.03	0.00	0.04	0.00	11.00	3.30	1.50	40.00	897.00	0.08	0.11	0.31	0.94	15.10	34.90	0.01	0.03	0.00	0.03	5.00	5.00	0.01	0.04
		Maximum	0.05	0.05	0.00	0.12	0.00	15.00	5.00	5.20	49.10	4730.00	0.14	0.19	0.48	2.27	18.50	101.00	0.01	0.12	0.00	0.09	5.00	5.00	0.01	0.07
		Average	0.04	0.04	0.00	0.07	0.00	13.25	4.00	3.70	43.45	2059.25	0.10	0.14	0.39	1.41	16.43	56.95	0.01	0.05	0.00	0.06	5.00	5.00	0.01	0.05
		Median	0.04	0.04	0.00	0.07	0.00	13.50	3.85	4.05	42.35	1305.00	0.10	0.13	0.39	1.22	16.05	45.95	0.01	0.03	0.00	0.06	5.00	5.00	0.01	0.04
		Standard Deviation	0.01	0.01	0.00	0.04	0.00	2.06	0.80	1.63	4.27	1792.91	0.03	0.04	0.08	0.59	1.46	29.88	0.00	0.05	0.00	0.02	0.00	0.00	0.00	0.01
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	TUL-03	Minimum	0.03	0.03	0.00	0.05	0.00	11.00	3.60	1.50	38.70	971.00	0.09	0.11	0.28	1.01	15.40	36.10	0.01	0.02	0.00	0.04	5.00	5.00	0.01	0.04
		Maximum	0.04	0.04	0.00	0.24	0.00	15.00	5.00	4.70	52.20	4490.00	0.11	0.19	0.52	2.16	18.00	98.90	0.01	0.11	0.00	0.09	5.00	5.00	0.01	0.06
		Average	0.03	0.03	0.00	0.10	0.00	13.25	4.30	3.40	46.58	1940.25	0.10	0.13	0.40	1.35	16.50	55.28	0.01	0.05	0.00	0.06	5.00	5.00	0.01	0.04
		Median	0.03	0.03	0.00	0.06	0.00	13.50	4.30	3.70	47.70	1150.00	0.10	0.11	0.40	1.12	16.30	43.05	0.01	0.03	0.00	0.05	5.00	5.00	0.01	0.04
		Standard Deviation	0.00	0.00	0.00	0.09	0.00	2.06	0.66	1.39	5.87	1702.42	0.01	0.04	0.10	0.54	1.16	29.28	0.00	0.04	0.00	0.02	0.00	0.00	0.00	0.01
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	TUL-06/ SW163	Minimum	0.03	0.03	0.00	0.02	0.00	11.00	3.30	1.50	16.70	553.00	0.05	0.07	0.19	0.56	22.10	35.70	0.01	0.01	0.00	0.02	5.00	5.00	0.01	0.03
		Maximum	0.05	0.05	0.00	0.23	0.00	13.00	4.60	4.00	26.90	2680.00	0.08	0.09	0.30	1.05	30.00	83.70	0.01	0.08	0.00	0.05	5.00	5.00	0.01	0.07
		Average	0.04	0.04	0.00	0.10	0.00	11.75	3.85	3.20	23.43	1373.75	0.07	0.08	0.25	0.79	25.18	59.18	0.01	0.04	0.00	0.03	5.00	5.00	0.01	0.04
		Median	0.04	0.04	0.00	0.07	0.00	11.50	3.75	3.65	25.05	1131.00	0.06	0.08	0.26	0.78	24.30	58.65	0.01	0.04	0.00	0.03	5.00	5.00	0.01	0.04
		Standard Deviation	0.01	0.01	0.00	0.09	0.00	0.96	0.54	1.18	4.57	1016.62	0.01	0.01	0.05	0.25	3.46	25.44	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.02
TRIBUTARY (ZONE 1)		Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	SW16-1	Minimum	0.04	0.04	0.00	0.03	0.00	15.00	4.90	4.70	27.70	886.00	0.18	0.20	0.47	1.22	17.30	36.30	0.01	0.02	0.00	0.03	5.00	5.00	0.01	0.03
		Maximum	0.05	0.05	0.00	0.13	0.00	18.00	5.90	5.50	32.30	1370.00	0.21	0.39	0.67	5.30	18.60	42.80	0.01	0.04	0.00	0.04	5.00	5.00	0.01	0.12
		Average	0.04	0.04	0.00	0.07	0.00	16.67	5.43	5.20	30.77	1084.33	0.19	0.28	0.59	2.95	17.87	40.60	0.01	0.03	0.00	0.04	5.00	5.00	0.01	0.08
		Median	0.04	0.04	0.00	0.06	0.00	17.00	5.50	5.40	32.30	997.00	0.19	0.24	0.64	2.34	17.70	42.70	0.01	0.04	0.00	0.03	5.00	5.00	0.01	0.07
		Standard Deviation	0.01	0.01	0.00	0.05	0.00	1.53	0.50	0.44	2.66	253.54	0.02	0.10	0.11	2.11	0.67	3.72	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.04
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	W27	Minimum	0.03	0.03	0.00	0.03	0.00	18.00	5.90	5.50	10.60	167.00	0.27	0.34	0.52	1.35	12.90	15.50	0.01	0.01	0.00	0.01	5.00	5.00	0.01	0.02
		Maximum	0.07	0.07	0.00	0.12	0.00	32.00	10.10	7.60	31.20	2040.00	0.41	0.77	1.06	8.94	18.80	57.10	0.01	0.08	0.00	0.03	5.00	5.00	0.02	0.19
		Average	0.05	0.05	0.00	0.09	0.00	24.50	7.85	6.93	19.63	947.50	0.35	0.50	0.81	4.34	15.73	31.95	0.01	0.04	0.00	0.02	5.00	5.00	0.02	0.09
		Median	0.05	0.05	0.00	0.10	0.00	24.00	7.70	7.30	18.35	791.50	0.36	0.45	0.84	3.54	15.60	27.60	0.01	0.04	0.00	0.01	5.00	5.00	0.02	0.08
		Standard Deviation	0.02	0.02	0.00	0.04	0.00	5.80	1.73	0.96	10.58	853.45	0.07	0.19	0.22	3.54	2.60	18.64	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.08
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	SW24-2	Minimum	0.06	0.06	0.00	0.10	0.00	2.10	1.50	1.50	11.80	12.90	0.48	0.49	1.01	1.20	4.48	5.00	0.01	0.01	0.00	0.00	5.00	5.00	0.00	0.00
		Maximum	0.21	0.21	0.00	0.26	0.00	5.00	1.50	1.50	12.70	69.10	0.99	0.82	1.96	1.70	9.50	8.00	0.01	0.01	0.00	0.01	5.00	5.00	0.01	0.00
		Average	0.13	0.13	0.00	0.18	0.00	3.60	1.50	1.50	12.35	29.13	0.78	0.71	1.53	1.47	7.55	6.92	0.01	0.01	0.00	0.00	5.00	5.00	0.00	0.00
		Median	0.13	0.13	0.00	0.18	0.00	3.65	1.50	1.50	12.45	17.25	0.83	0.76	1.57	1.50	8.11	7.35	0.01	0.01	0.00	0.00	5.00	5.00	0.00	0.00
		Standard Deviation	0.08	0.08	0.00	0.07	0.00	1.24	0.00	0.00	0.39	26.78	0.24	0.15	0.42	0.22	2.37	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Effluent		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	5200 LEVEL ADIT	Minimum	0.01	0.01	0.00	0.01	0.01	720.00	236.00	211.00	22800.00	16700.00	0.20	1.96	2.25	64.40	13.30	13.90	0.47	0.38	0.05	0.10	100.00	100.00	341.00	336.00
		Maximum	0.01	0.01	0.06	0.11	0.01	742.50	269.75	268.00	24975.00	23875.00	0.25	2.08	4.76	76.10	16.08	16.35	0.60	0.54	0.05	0.10	100.00	100.00	377.00	390.75
		Average	0.01	0.01	0.07	0.11	0.01	735.00	267.50	280.50	24700.00	25500.00	0.20	2.06	3.68	71.80	16.75	17.00	0.59	0.50	0.05	0.10	100.00	100.00	382.00	400.50
		Standard Deviation	0.00	0.00	0.04	0.11	0.00	26.30	31.50	40.21	2128.18	5144.17	0.10	0.12	3.19	14.63	1.94	1.67	0.12	0.17	0.00	0.00	0.00	0.00	27.75	42.95
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	5400 LEVEL ADIT	Minimum	0.06	0.06	0.00	0.22	0.00	190.00	60.00	58.00	2380.00	2780.00	0.21	4.18	0.22	94.00	29.60	29.50	0.01	0.13	0.01	0.03	25.00	25.00	137.00	139.00
		Maximum	0.15	0.15	0.00	0.31	0.00	210.00	80.00	73.00	3860.00	3890.00	0.79	0.46	0.77	159.00	34.30	46.70	0.20	0.17	0.03	0.05	50.00	50.00	176.00	164.00
		Average	0.10	0.10	0.00	0.26	0.00	202.50	69.50	67.25	3040.00	3245.00	0.50	6.78	0.44	131.75	31.15	36.85	0.13	0.16	0.02	0.03	37.50	31.25	151.00	147.00
		Median	0.09	0.09	0.00	0.25	0.00	205.00	69.00	69.00	2960.00	3155.00	0.51	6.74	0.38	137.00	30.35	35.60	0.16	0.16	0.02	0.03	37.50	25.00	145.50	142.50
		Standard Deviation	0.04	0.04	0.00	0.04	0.00	9.57	9.15	6.90	758.46	486.38	0.24	2.49	0.25	27.27	2.15	7.30	0.09	0.02	0.01	0.01	14.43	12.50	17.15	11.63
		Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5400 CLEAN WATER PIPE	Minimum	0.24	0.24	0.00	0.31	0.00	110.00	42.90	43.40	28.40	1430.00	13.70	19.40	0.63	64.50	22.40	24.30	0.01	0.05	0.01	0.01	24.00	26.00	46.40	47.50
		Maximum	0.24	0.24	0.00	0.31	0.00	110.00	42.90	43.40	28.40	1430.00	13.70	19.40	0.63	64.50	22.40	24.30	0.01	0.05	0.01	0.01	24.00	26.00	46.40	47.50
		Average	0.24	0.24	0.00	0.31	0.00	110.00	42.90	43.40	28.40	1430.00	13.70	19.40	0.63	64.50	22.40	24.30	0.01	0.05	0.01	0.01	24.00	26.00	46.40	47.50
		Median	0.24	0.24	0.00	0.31	0.00	110.00	42.90	43.40	28.40	1430.00	13.70	19.40	0.63	64.50	22.40	24.30	0.01	0.05	0.01	0.01	24.00	26.00	46.40	47.50
		Standard Deviation	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	5900 LEVEL ADIT	Minimum	0.33	0.33	0.00	0.35	0.00	79.00	29.10	25.60	35.80	360.00	1.65	1.58	0.12	1.20	29.00	28.00	0.01	0.01	0.00	0.01	5.00	5.00	4.58	5.01
		Maximum	0.43	0.43	0.00	0.53	0.00	93.00	30.60	29.60	57.00	2800.00	1.69	2.25	0.14	11.80	30.30	44.80	0.01	0.15	0.00	0.01	5.00	5.00	4.79	7.60
		Average	0.37	0.37	0.00	0.42	0.00	87.67	29.70	27.90	43.80	1176.33	1.67	1.82	0.13	4.90	29.67	34.73	0.01	0.06	0.00	0.01	5.00	5.00	4.69	5.87
		Median	0.35	0.35	0.00	0.39	0.00	91.00	29.40	28.50	38.60	369.00	1.68	1.63	0.14	1.69	29.70	31.40	0.01	0.02	0.00	0.01	5.00	5.00	4.70	5.01
		Standard Deviation	0.05	0.05	0.00	0.10	0.00	7.57	0.79	2.07	11.52	1406.14	0.02	0.37	0.01	5.98	0.65	8.88	0.00	0.08	0.00	0.00	0.00	0.00	0.11	1.50
		Count	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4
	SE2	Minimum	0.03	0.03	0.00	0.10	0.00	260.00	86.00	82.00	5690.00	5070.00	0.26	2.36	0.26	42.40	25.10	26.60	0.21	0.19	0.01	0.03	25.00	25.00	144.00	145.00
		Maximum	0.08	0.08	0.00	0.23	0.00	290.00	104.00	97.00	7530.00	6640.00	0.33	4.53	0.73	81.60	27.80	33.50	0.28	0.25	0.03	0.05	50.00	50.00	163.00	163.00
		Average	0.05	0.05	0.00	0.17	0.00	272.50	96.25	89.00	6675.00	5905.00	0.29	3.30	0.43	59.55	25.85	28.78	0.24	0.21	0.02	0.03	43.75	31.25	155.50	151.25
		Median	0.04	0.04	0.00	0.19	0.00	270.00	97.50	88.50	6740.00	5955.00	0.29	3.16	0.31	57.10	25.25	27.50	0.23	0.21	0.03	0.03	50.00	25.00	157.50	148.50
		Standard Deviation	0.02	0.02	0.00	0.06	0.00	15.00	7.59	7.16	754.92	755.62	0.03	0.98	0.26	16.76	1.31	3.24	0.03	0.03	0.01	0.01	12.50	12.50	8.58	8.26
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	WTP POND	Minimum	0.01	0.01	0.00	0.07	0.00	170.00	58.70	46.40	8.95	28.20	7.87	7.24	0.39	0.68	20.10	17.70	0.01	0.01	0.00	0.00	5.00	5.00	5.36	5.32
		Maximum	0.01	0.01	0.00	0.16	0.01	190.00	68.90	66.70	16.70	41.80	10.30	8.54	0.55	0.74	23.20	21.50	0.01	0.01	0.00	0.01	5.00	5.00	10.60	9.57
		Average	0.01	0.01	0.00	0.11	0.00	177.50	63.95	55.83	13.51	33.05	8.78	7.82	0.47	0.72	21.85	19.15	0.01	0.01	0.00	0.00	5.00	5.00	7.26	7.28
		Median	0.01	0.01	0.00	0.11	0.00	175.00	64.10	55.10	14.20	31.10	8.48	7.74	0.47	0.73	22.05	18.70	0.01	0.01	0.00	0.01	5.00	5.00	6.55	7.12
		Standard Deviation	0.00	0.00	0.00	0.05	0.00	9.57	5.67	8.62	3.85	6.41	1.07	0.54	0.09	0.03	1.29	1.76	0.00	0.00	0.00	0.00	0.00	0.00	2.35	2.02
		Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	400 LEVEL ADI	Minimum	0.46	0.46	0.00	0.50	0.00	11.00	1.50	1.50	41.10	69.00	0.70	0.68	0.62	3.00	14.40	13.20	0.01	0.01	0.00	0.01	5.00	5.00	0.89	1.12
		Maximum	0.46	0.46	0.00	0.50	0.00	11.00	1.50	1.50	41.10	69.00	0.70	0.68	0.62	3.00	14.40	13.20	0.01	0.01	0.00	0.01	5.00	5.00	0.89	1.12
		Average	0.46	0.46	0.00	0.50	0.00	11.00	1.50	1.50	41.10	69.00	0.70	0.68	0.62	3.00	14.40	13.20	0.01	0.01	0.00	0.01	5.00	5.00	0.89	1.12
		Median	0.46	0.46	0.00	0.50	0.00	11.00	1.50	1.50	41.10	69.00	0.70	0.68	0.62	3.00	14.40	13.20	0.01	0.01	0.00	0.01	5.00	5.00	0.89	1.12
		Standard Deviation	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Zone 2		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	4	4	4	4	4	4	4
	SW24-1	Minimum	0.03	0.03	0.00	0.03	0.00	11.00	3.60	1.50	25.70	324.00	0.08	0.08	0.30	0.42	15.40	29.00	0.01	0.02	0.00	0.01	5.00	5.00	0.01	0.02
		Maximum	0.06	0.06	0.00	0.10	0.00	16.00	5.10	4.90	48.30	2610.00	0.13	0.17	0.50	1.67	22.50	68.90	0.01	0.09	0.00	0.08	5.00	5.00	0.01	0.05
		Average	0.04	0.04	0.00	0.05	0.00	13.25	4.30	3.48	38.63	1493.50	0.10	0.13	0.40	1.19	18.98	48.73	0.01	0.04	0.00	0.05	5.00	5.00	0.01	0.04
		Median	0.05	0.05	0.00	0.04	0.00	13.00	4.25	3.75	40.25	1520.00	0.09	0.14	0.39	1.34	19.00	48.50	0.01	0.04	0.00	0.05	5.00	5.00	0.01	0.04
		Standard Deviation	0.02	0.02	0.00	0.03	0.00	2.22	0.72	1.49	9.47	1015.86	0.02	0.04	0.10	0.60	3.21	17.81	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.02
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	SW24-11	Minimum	0.03	0.03	0.00	0.04	0.00	13.00	3.80	3.10	27.20	284.00	0.13	0.15	0.37	1.27	15.70	23.80	0.01	0.02	0.00	0.01	5.00	5.00	0.01	0.04
		Maximum	0.07	0.07	0.00	0.14	0.00	21.00	7.40	6.80	42.90	2110.00	0.27	0.29	0.64	1.78	18.20	59.90	0.01	0.06	0.00	0.07	5.00	5.00	0.02	0.06
		Average	0.05	0.05	0.00	0.09	0.00	16.00	5.20	4.75	36.83	1103.50	0.17	0.19	0.54	1.51	17.05	41.65	0.01	0.03	0.00	0.04	5.00	5.00	0.01	0.05
		Median	0.04	0.04	0.00	0.09	0.00	15.00	4.80	4.55	38.60	1010.00	0.14	0.17	0.58	1.49	17.15	41.45	0.01	0.03	0.00	0.05	5.00	5.00	0.01	0.05
		Standard Deviation	0.02	0.02	0.00	0.05	0.00	3.56	1.55	1.54	6.81	753.24	0.07	0.07	0.12	0.25	1.05	14.74	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.01
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	W11	Minimum	0.05	0.05	0.00	0.06	0.00	68.00	21.70	21.30	14.00	1110.00	0.32	0.45	0.02	2.71	25.10	24.60	0.01	0.04	0.00	0.01	5.00	5.00	22.40	21.80
		Maximum	0.14	0.14	0.00	0.23	0.00	130.00	42.50	40.00	183.00	2200.00	0.41	0.99	0.08	15.60	31.30	32.00	0.06	0.12	0.01	0.01	10.00	10.00	58.10	57.40
		Average	0.07	0.07	0.00	0.13	0.00	98.50	36.43	34.63	57.58	1685

Table 8: Summary Statistics by Sampling Location

Location Groups	Location Name	Summary Statistic	Calcium	Calcium	Chromium (III+VI)	Chromium (III+VI)	Cobalt	Cobalt	Copper	Copper	Iron	Iron	Lead	Lead	Lithium	Lithium	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum	Nickel	Nickel
Parameter Groups			Metals																							
Parameters			Calcium	Calcium	Chromium (III+VI)	Chromium (III+VI)	Cobalt	Cobalt	Copper	Copper	Iron	Iron	Lead	Lead	Lithium	Lithium	Magnesium	Magnesium	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum	Nickel	Nickel
Filtered or Total			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
RDL			0.05 - 1	0.05 - 5	0.1 - 2	0.1 - 2	0.005 - 0.1	0.005 - 0.2	0.05 - 1	0.05 - 2	1 - 20	1 - 100	0.005 - 0.1	0.005 - 0.4	0.5 - 10	0.5 - 10	0.05 - 1	0.05 - 5	0.05 - 1	0.05 - 2	0.0019	0.0019	0.05 - 1	0.05 - 1	0.02 - 0.4	0.02 - 2
Result Unit			mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Zone 1	TUL-00/W10	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	9.31	9.93	0.05	1.52	0.02	0.79	0.13	3.04	4.90	1410.00	0.01	1.03	0.25	1.26	1.10	1.87	1.62	39.40	0.00	0.00	1.90	1.85	0.13	2.53
		Maximum	11.90	12.50	0.05	8.65	0.04	2.46	0.16	8.57	10.50	6240.00	0.02	3.16	0.51	4.60	1.50	3.33	4.04	125.00	0.00	0.00	2.66	2.51	0.34	7.34
		Average	10.85	11.03	0.05	3.74	0.03	1.36	0.14	5.23	6.75	2940.00	0.01	1.94	0.32	2.17	1.28	2.35	3.00	69.98	0.00	0.00	2.22	2.18	0.24	4.17
		Median	11.10	10.85	0.05	2.39	0.03	1.09	0.14	4.66	5.80	2055.00	0.01	1.78	0.25	1.42	1.26	2.10	3.17	57.75	0.00	0.00	2.15	2.18	0.25	3.40
		Standard Deviation	1.17	1.16	0.00	3.32	0.01	0.77	0.01	2.46	2.62	2263.46	0.00	0.91	0.13	1.62	0.18	0.66	1.11	38.87	0.00	0.00	0.37	0.34	0.09	2.17
	SW21-2	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	6.51	6.05	0.05	1.23	0.03	0.41	0.16	2.17	6.80	590.00	0.01	0.23	0.25	0.61	1.07	1.60	7.82	26.90	0.00	0.00	0.68	0.71	0.73	2.25
		Maximum	8.52	9.28	0.05	7.86	0.07	1.78	0.37	8.00	11.00	3630.00	0.01	0.80	0.25	2.47	1.45	2.43	12.10	88.00	0.00	0.00	0.95	1.04	1.26	7.61
		Average	7.56	7.56	0.05	3.49	0.04	0.94	0.25	4.88	8.88	1660.00	0.01	0.55	0.25	1.15	1.34	1.96	8.94	55.45	0.00	0.00	0.80	0.83	0.96	4.77
		Median	7.60	7.46	0.05	2.44	0.04	0.79	0.25	4.67	8.85	1210.00	0.01	0.58	0.25	0.76	1.41	1.90	7.92	53.45	0.00	0.00	0.78	0.78	0.94	4.60
		Standard Deviation	0.94	1.42	0.00	3.06	0.02	0.66	0.10	2.78	2.00	1418.43	0.00	0.28	0.00	0.89	0.18	0.40	2.11	31.88	0.00	0.00	0.13	0.15	0.22	2.72
	TUL-03	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	9.38	9.77	0.05	1.42	0.02	0.62	0.12	2.64	4.90	1100.00	0.01	0.82	0.25	0.97	1.10	1.62	2.13	29.80	0.00	0.00	1.91	1.86	0.15	2.36
		Maximum	11.90	12.50	0.05	7.44	0.04	2.04	0.15	6.90	8.70	5240.00	0.02	2.35	0.25	3.79	1.46	2.85	4.24	105.00	0.00	0.00	2.59	2.46	0.36	6.00
		Average	10.85	10.84	0.05	3.11	0.03	1.09	0.14	4.20	6.73	2380.00	0.01	1.46	0.25	1.77	1.27	2.05	3.28	54.98	0.00	0.00	2.25	2.17	0.25	3.39
		Median	11.05	10.55	0.05	1.78	0.03	0.86	0.14	3.62	6.65	1590.00	0.01	1.35	0.25	1.15	1.25	1.86	3.38	42.55	0.00	0.00	2.25	2.18	0.24	2.60
		Standard Deviation	1.09	1.22	0.00	2.90	0.01	0.64	0.01	1.86	1.57	1920.89	0.00	0.64	0.00	1.36	0.15	0.58	0.87	33.90	0.00	0.00	0.31	0.32	0.09	1.75
	TUL-03	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	9.51	10.00	0.05	1.48	0.02	0.66	0.10	2.79	5.30	1190.00	0.01	0.88	0.25	0.88	1.12	1.60	1.97	31.90	0.00	0.00	1.92	1.91	0.15	2.20
		Maximum	11.60	11.70	0.05	6.49	0.04	1.98	0.18	6.70	9.60	4730.00	0.02	2.25	0.25	3.68	1.47	2.79	3.83	98.70	0.00	0.00	2.62	2.62	0.36	5.80
		Average	10.85	10.65	0.05	2.76	0.03	1.04	0.14	4.04	7.10	2172.50	0.01	1.40	0.25	1.68	1.28	1.97	3.05	51.93	0.00	0.00	2.23	2.14	0.25	3.22
		Median	11.15	10.45	0.05	1.54	0.03	0.76	0.14	3.33	6.75	1385.00	0.01	1.25	0.25	1.08	1.26	1.75	3.21	38.55	0.00	0.00	2.19	2.01	0.25	2.43
		Standard Deviation	0.94	0.76	0.00	2.49	0.01	0.63	0.03	1.81	1.93	1707.72	0.00	0.60	0.00	1.34	0.16	0.55	0.79	31.37	0.00	0.00	0.31	0.33	0.09	1.73
	TUL-06/ SW16-3	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	9.50	8.48	0.05	1.15	0.02	0.47	0.16	2.18	6.40	755.00	0.01	0.51	0.25	0.76	1.34	1.65	3.70	26.80	0.00	0.00	1.37	1.28	0.47	1.93
		Maximum	10.90	10.50	0.05	6.40	0.06	1.70	0.39	8.40	8.70	3600.00	0.02	1.48	0.25	2.64	1.58	2.53	6.83	102.00	0.00	0.00	1.96	1.83	0.94	7.69
		Average	10.01	9.92	0.05	3.37	0.04	1.05	0.26	4.85	7.23	1992.25	0.01	0.94	0.25	1.42	1.46	2.16	5.48	58.18	0.00	0.00	1.59	1.53	0.64	4.39
		Median	9.83	10.35	0.05	2.96	0.04	1.01	0.24	4.40	6.90	1807.00	0.01	0.89	0.25	1.15	1.46	2.23	5.70	51.95	0.00	0.00	1.51	1.50	0.58	3.98
		Standard Deviation	0.65	0.97	0.00	2.63	0.02	0.66	0.10	2.96	1.01	1446.53	0.00	0.47	0.00	0.88	0.10	0.43	1.32	37.28	0.00	0.00	0.20	0.27	0.23	2.77
TRIBUTARY (ZONE 1)	SW16-1	Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Minimum	13.70	14.50	0.05	1.33	0.04	0.53	0.17	2.22	5.90	1070.00	0.01	0.79	0.51	1.01	1.39	1.88	4.67	30.30	0.00	0.00	2.30	2.31	0.43	2.05
		Maximum	15.60	15.70	0.05	3.29	0.04	1.96	0.23	5.68	9.30	2580.00	0.01	1.53	0.62	1.89	1.72	2.26	7.46	75.70	0.00	0.01	2.43	2.45	0.77	11.30
		Average	14.67	14.97	0.05	2.08	0.04	1.15	0.19	3.78	7.63	1696.67	0.01	1.20	0.57	1.37	1.53	2.10	5.97	52.60	0.00	0.01	2.36	2.37	0.58	5.75
		Median	14.70	14.70	0.05	1.62	0.04	0.97	0.18	3.43	7.70	1440.00	0.01	1.28	0.57	1.21	1.49	2.16	5.78	51.80	0.00	0.01	2.34	2.35	0.55	3.91
		Standard Deviation	0.95	0.64	0.00	1.06	0.00	0.73	0.03	1.76	1.70	787.04	0.00	0.38	0.06	0.46	0.17	0.20	1.40	22.71	0.00	0.01	0.07	0.07	0.17	4.89
	W27	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	17.00	17.40	0.05	0.39	0.03	0.16	0.15	0.64	4.70	231.00	0.00	0.20	0.83	1.03	1.54	2.11	9.06	15.50	0.00	0.00	2.04	2.22	0.82	1.30
		Maximum	27.20	24.90	0.05	5.49	0.07	2.19	0.43	6.51	16.30	4100.00	0.02	2.03	1.39	2.96	2.74	3.59	18.80	99.30	0.00	0.02	2.99	3.31	1.47	14.00
		Average	21.50	20.45	0.05	2.62	0.05	1.05	0.24	3.20	10.63	1834.25	0.01	0.97	1.06	1.93	2.11	2.51	11.66	53.15	0.00	0.01	2.55	2.58	1.12	6.78
		Median	20.90	19.75	0.05	2.29	0.06	0.93	0.19	2.83	10.75	1503.00	0.01	0.83	1.01	1.87	2.09	2.18	9.39	48.90	0.00	0.01	2.58	2.40	1.10	5.91
		Standard Deviation	4.40	3.18	0.00	2.33	0.02	0.99	0.13	2.92	5.14	1782.57	0.01	0.91	0.24	0.81	0.51	0.72	4.76	39.26	0.00	0.01	0.43	0.50	0.30	6.00
	SW24-2	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	15.60	16.60	0.05	0.05	0.00	0.01	0.15	0.17	0.50	2.50	0.00	0.01	0.25	0.25	0.26	0.29	0.05	0.28	0.00	0.00	0.12	0.11	0.04	0.04
		Maximum	25.40	20.90	0.05	0.28	0.01	0.05	0.27	0.34	1.30	66.70	0.01	0.03	0.25	0.25	0.56	0.47	0.27	4.69	0.00	0.00	0.19	0.17	0.06	0.16
		Average	20.90	19.50	0.05	0.11	0.01	0.02	0.21	0.24	0.70	21.40	0.00	0.01	0.25	0.25	0.43	0.38	0.12	1.47	0.00	0.00	0.17	0.15	0.05	0.07
		Median	21.30	20.25	0.05	0.05	0.01	0.01	0.21	0.23	0.50	8.20	0.00	0.01	0.25	0.25	0.46	0.39	0.07	0.46	0.00	0.00	0.18	0.16	0.04	0.05
		Standard Deviation	4.21	1.96	0.00	0.12	0.00	0.02	0.05	0.07	0.40	30.32	0.00	0.01	0.00	0.00	0.14	0.07	0.10	2.15	0.00	0.00	0.03	0.03	0.01	0.06
Effluent	5200 LEVEL ADIT	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	116.00	113.00	4.40	4.10	11.30	10.90	21000.00	20400.00	20600.00	36800.00	207.00	195.00	20.00	17.00	15.30	12.90	451.00	429.00	0.00	0.00	0.50	0.50	12.90	13.30
		Maximum	138.00	141.00	5.50	5.50	14.30	13.50	25200.00	25600.00	34200.00	49800.00	251.00	256.00	24.00	23.00	18.40	18.50	533.00	553.00	0.00	0.00	0.50	0.50	17.20	18.80
		Average	131.50	129.75	4.78	4.83	12.40	12.50	23300.00	23900.00	26750.00	43550.00	229.50	231.25	21.75	20.00	16.78	16.30	487.25	497.00	0.00	0.00	0.50	0.50	15.05	15.98
		Median	136.00	132.50	4.60	4.85	12.00	12.80	23500.00	24800.00	26100.00	43800.00	230.00	237.00	21.50	20.00	16.70	16.90	482.50	503.00	0.00	0.00	0.50	0.50	15.05	15.90
		Standard Deviation	10.38	13.00	0.50	0.64	1.31	1.13	2167.95	2376.27	5612.19	5355.06	18.63	25.89	2.06	2.58	1.27	2.46	37.83	52.19	0.00	0.00	0.00	0.00	1.76	2.25
	5400 LEVEL ADIT	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	44.50	43.00	0.05	0.25	2.57	2.49	4950.00	5000.00	28.20	8440.00	45.50	81.40	7.10	5.70	4.03	3.40	246.00	241.00	0.00	0.01	0.13	0.25	4.55	4.43
		Maximum	50.70	48.80	0.25	0.67	3.26	3.00	6640.00	6510.00	155.00	14300.00	96.90	112.00	8.40	7.70	4.87	4.40	319.00	295.00	0.00	0.02	0.25	1.57	5.98	5.30
		Average	47.83	45.60	0.15	0.50	2.80	2.68	5902.50	5735.00	74.43	11985.00	63.65	94.10	7.53	6.60	4.37	3.98	269.75	261.25	0.00	0.01	0.19	0.99	5.04	4.88
		Median	48.05	45.30	0.15	0.54	2.69	2.61	6010.00	5715.00	57.25	12600.00	56.10	91.50	7.30	6.50	4.29	4.05	257.00	254.50	0.00	0.01	0.19	1.07	4.81	4.90
		Standard Deviation	3.00	2.50	0.12	0.18	0.31	0.23	702.20	619.92	56.40	2496.84	22.92	12.90	0.59	0.96	0.36	0.42	33.60	23.47	0.00	0.00	0.07	0.57	0.66	0.36
	5400 CLEAN WATER PIPE	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Minimum	58.10	58.60	0.10	0.29	0.90	0.85	578.00	1970.00	5.80	3770.00	0.60	39.20	10.20	9.70	2.51	2.43	86.20	85.90	0.00	0.01	2.94	3.88	1.66	1.56
		Maximum	58.10	58.60	0.10	0.29	0.90	0.85	578.00	1970.00	5.80	3770.00	0.60	39.20	10.20	9.70	2.51	2.43	86.20	85.90	0.00	0.01	2.94	3.88	1.66	1.56
		Average	58.10	58.60	0.10	0.29	0.90	0.85	578.00	1970.00	5.80	3770.00	0.60	39.20	10.20	9.70	2.51	2.43	86.20	85.90	0.00	0.01	2.94	3.88	1.66	1.56
		Median	58.10	58.60	0.10	0.29	0.90	0.85	578.00	1970.00	5.80	3770.00	0.60	39.20	10.20	9.70	2.51	2.43	86.20	85.90	0.00	0.01	2.94	3.88	1.66	1.56
		Standard Deviation	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	5900 LEVEL ADIT	Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Minimum	52.20	47.40	0.05	0.05	3.00	3.74	2.94	19.60	2.30	663.00	0.01	0.94	2.16	1.95	3.08	2.45	41.40	53.90	0.00	0.00	0.43	0.40	2.34	2.60
		Maximum	55.80	53.50	0.05	0.51	5.30	4.96	4.29	175.00	15.40	5030.00	0.02	14.50	2.31	2.53	3.12	2.95	75.20	71.90	0.00	0.00	0.45	0.52	3.07	2.86
		Average	53.43	49.70	0.05	0.28	4.03	4.21	3.50	74.03	6.67	2227.67	0.02	5.61	2.23	2.19	3.10	2.76	57.63	64.90	0.00	0.00	0.44	0.46	2.70	2.72
		Median	52.30	48.20	0.05	0.27	3.80	3.92	3.26	27.50	2.30	990.00	0.02	1.40	2.23	2.08	3.10	2.88	56.30	68.90	0.00	0.00	0.43	0.47	2.70	2.71
		Standard Deviation	2.05	3.32	0.00	0.23	1.17	0.66	0.71	87.53	7.56	2432.39	0.01	7.70	0.08	0.30	0.02	0.27	16.94	9.64	0.00	0.00	0.01	0.06	0.37	0.13
	SE2	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	54.20	54.10	0.50	0.50	4.09	4.39	6100.00	6730.00	320.00	6220.00	82.10	92.40	9.60	7.70	5.67	4.90	294.00	280.00	0.00	0.01	0.13	0.33	6.86	6.74
		Maximum	63.90	61.90	0.59	1.25	5.43	5.30	8020.00	7440.00	1120.00	12100.00	100.00	99.50	11.90	9.40	6.42	6.20	340.00	333.00	0.00	0.02	0.25	0.63	8.42	8.00
		Average	60.10	57.43	0.52	0.96	4.92	4.71	7285.00	7152.50	752.50	8845.00	93.73	96.40	10.25	8.33	6.21	5.63	318.00	303.25	0.00	0.01	0.22	0.48	7.56	7.46
		Median	61.15	56.85	0.50	1.05	5.07	4.57	7510.00	7220.00	785.00	8530.00	96.40	96.85	9.75	8.10	6.38	5.70	319.00	300.00	0.00	0.01	0.25	0.49	7.48	7.56
		Standard Deviation	4.60	3.62	0.05	0.32	0.63	0.42	845.08	349.80	384.83	2480.11	8.02	2.97	1.11	0.76	0.36	0.59	22.45	22.34	0.00	0.00	0.06	0.14	0.73	0.55
	WTP POND	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	79.60	70.90	0.05	0.05	0.48	0.47	11.80	33.60	11.10	187.00	0.01	0.11	4.77	3.61	5.33	4.02	29.40	32.40	0.00	0.00	0.32	0.32	1.84	2.10
		Maximum	91.40	89.70	0.05	0.14	1.18	0.98	26.40	46.40	93.30	365.00	0.03	0.12	5.81	5.22	6.27	6.14	75.50	67.80	0.00	0.00	0.47	0.36	5.55	4.88
		Average	88.08	77.90	0.05	0.09	0.76	0.70	17.35	40.93	39.43	272.50	0.02	0.11	5.30	4.66	5.82	5.04	49.25	48.93	0.00	0.00	0.38	0.33	3.33	3.29
		Median	90.65	75.50	0.05	0.08	0.69	0.67	15.60	41.85	26.65	269.00	0.01	0.11	5.31	4.90	5.84	5.00	46.05	47.75	0.00	0.00	0.36	0.33	2.96	3.09
		Standard Deviation	5.66	8.57	0.00	0.05	0.31	0.23	6.29	5.82	38.11	78.49	0.01	0.00	0.44	0.72	0.43	0.94	20.55	16.80	0.00	0.00	0.06	0.02	1.66	1.30
	400 LEVEL AD	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Minimum	25.90	24.10	0.05	0.14	0.06	0.06	13.80	56.90	73.90	542.00	0.05	0.53	0.25	0.25	0.52	0.45	3.05	3.19	0.00	0.00	0.17	0.16	0.12	0.14
		Maximum	25.90	24.10	0.05	0.14	0.06	0.06	13.80	56.90	73.90	542.00	0.05	0.53	0.25	0.25	0.52	0.45	3.05	3.19	0.00	0.00	0.17	0.16	0.12	0.14
		Average	25.90	24.10	0.05	0.14	0.06	0.06	13.80	56.90	73.90	542.00	0.05	0.53	0.25	0.25	0.52	0.45	3.05	3.19	0.00	0.00	0.17	0.16	0.12	0.14
		Median	25.90	24.10	0.05	0.14	0.06	0.06	13.80	56.90	73.90	542.00	0.05	0.53	0.25	0.25	0.52	0.45	3.05	3.19	0.00	0.00	0.17	0.16	0.12	0.14
		Standard Deviation	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Zone 2	SW24-1	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	9.31	10.10	0.05	0.89	0.02	0.29	0.10	1.50	5.10	427.00	0.01	0.30	0.25	0.54	1.07	1.52	2.27	14.50	0.00	0.00	1.85	1.77	0.15	1.47
		Maximum	13.20	14.00	0.05	4.27	0.04	1.41	0.21	5.36	8.40	3130.00	0.02	1.82	0.25	2.61	1.59	2.15	4.04	71.90	0.00	0.00	2.73	2.74	0.54	4.15
		Average	11.25	11.13	0.05	2.49	0.03	0.88	0.15	3.76	6.58	1834.25	0.01	1.19	0.25	1.48	1.36	1.94	2.80	45.30	0.00	0.00	2.15	2.08	0.29	2.82
		Median	11.25	10.20	0.05	2.41	0.03	0.92	0.14	4.10	6.40	1890.00	0.01	1.33	0.25	1.38	1.39	2.05	2.44	47.40	0.00	0.00	2.01	1.91	0.24	2.83
		Standard Deviation	1.59	1.92	0.00	1.50	0.01	0.53	0.04	1.88	1.37	1244.39	0.00	0.74	0.00	0.92	0.26	0.29	0.84	27.60	0.00	0.00	0.40	0.45	0.17	1.31
	SW24-11	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	11.10	11.40	0.05	0.56	0.02	0.56	0.14	1.57	5.40	427.00	0.01	0.45	0.25	0.92	1.22	1.65	3.09	22.00	0.00	0.00	1.99	2.00	0.23	2.38
		Maximum	17.80	17.00	0.05	3.60	0.03	1.34	0.24	5.09	11.00	2900.00	0.02	1.75	0.73	2.58	1.78	2.16	4.37	69.10	0.00	0.02	2.50	2.37	0.81	4.10
		Average	13.75	13.43	0.05	1.79	0.03	0.84	0.18	3.31	7.05	1486.75	0.01	1.15	0.37	1.44	1.49	1.91	3.81	42.18	0.00	0.01	2.30	2.19	0.40	3.05
		Median	13.05	12.65	0.05	1.49	0.03	0.74	0.17	3.30	5.90	1310.00	0.01	1.20	0.25	1.14	1.48	1.91	3.90	38.80	0.00	0.00	2.35	2.20	0.29	2.86
		Standard Deviation	2.85	2.60	0.00	1.29	0.00	0.34	0.05	1.44	2.66	1030.05	0.00	0.53	0.24	0.77	0.24	0.22	0.53	19.83	0.00	0.00	0.22	0.17	0.27	0.76
	W11	Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum	26.90	26.40	0.05	0.10	0.92	0.95	307.00	976.00	0.50	437.00	0.86	14.00	2.13	1.89

Table 8: Summary Statistics by Sampling Location

Location Groups	Location Name	Summary Statistic	Parameter Groups	Metals																													
			Parameters	Phosphorus	Phosphorus	Phosphorus	Potassium	Potassium	Selenium	Selenium	Silicon	Silicon	Silver	Silver	Sodium	Sodium	Strontium	Strontium	Thallium	Thallium	Tin	Tin	Titanium	Titanium	Uranium	Uranium	Vanadium	Vanadium	Zinc	Zinc	Zirconium	Zirconium	Mercury
			Filtered or Total	T	T	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F
			RDL	0.003	0.003	2 - 100	0.05 - 1	0.05 - 5	0.04 - 0.8	0.04 - 0.8	50 - 1000	50 - 1000	0.005 - 0.1	0.005 - 0.2	0.05 - 1	0.05 - 5	0.05 - 1	0.05 - 1	0.002 - 0.04	0.002 - 0.04	0.2 - 4	0.2 - 4	0.5 - 10	0.5 - 40	0.002 - 0.04	0.002 - 0.1	0.2 - 4	0.2 - 4	0.5 - 10	0.5 - 40	0.002 - 0.04	0.002 - 0.1	0.0002 - 0.0004	0.0002 - 0.0004
			Result Unit	mg/L	mg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Zone 1	TUL-00/W10	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.05	28.00	0.82	1.28	0.12	0.14	664.00	2450.00	0.00	0.01	0.45	0.66	44.60	51.70	0.00	0.02	0.10	0.10	0.25	69.50	0.18	0.44	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.07	59.00	1.13	2.30	0.16	0.18	956.00	13100.00	0.00	0.03	0.71	1.28	52.00	59.30	0.01	0.06	0.10	0.20	0.89	323.00	0.29	0.59	0.24	1.00	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.06	47.98	0.97	1.59	0.14	0.15	809.00	5467.50	0.00	0.02	0.59	0.86	48.83	55.35	0.00	0.03	0.10	0.13	0.49	144.35	0.24	0.49	0.20	0.75	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.06	52.45	0.96	1.39	0.14	0.15	808.00	3160.00	0.00	0.02	0.60	0.76	49.35	55.20	0.00	0.03	0.10	0.10	0.40	92.45	0.25	0.46	0.22	0.75	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.01	13.78	0.15	0.48	0.02	0.02	125.24	5106.02	0.00	0.01	0.11	0.28	3.63	3.26	0.00	0.02	0.00	0.05	0.30	120.65	0.05	0.07	0.06	0.25	0.00	0.00	0.00	0.00	0.0000	0.0000
	SW21-2	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.03	13.00	0.50	0.59	0.11	0.13	297.00	948.00	0.00	0.01	0.13	0.13	22.80	20.90	0.00	0.01	0.10	0.10	0.25	14.70	0.03	0.09	0.10	0.25	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.11	56.30	0.69	0.94	0.15	0.18	491.00	4630.00	0.00	0.02	0.18	0.13	31.00	32.80	0.01	0.03	0.10	0.10	0.25	117.00	0.05	0.18	0.10	0.25	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.07	32.60	0.60	0.78	0.13	0.14	392.75	2108.00	0.00	0.01	0.16	0.13	27.00	27.10	0.01	0.02	0.10	0.10	0.25	48.03	0.04	0.14	0.10	0.25	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.08	30.55	0.60	0.79	0.13	0.14	391.50	1427.00	0.00	0.01	0.17	0.13	27.10	27.35	0.01	0.02	0.10	0.10	0.25	30.20	0.04	0.14	0.10	0.25	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.04	21.21	0.09	0.16	0.02	0.02	82.79	1738.04	0.00	0.01	0.02	0.00	3.69	5.05	0.00	0.01	0.00	0.00	0.00	47.67	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
	TUL-03	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.05	20.80	0.85	1.17	0.11	0.13	677.00	2250.00	0.00	0.01	0.46	0.56	43.70	47.80	0.00	0.01	0.10	0.10	0.25	54.60	0.14	0.38	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.06	47.60	1.10	2.07	0.16	0.17	945.00	11500.00	0.00	0.03	0.68	1.13	52.60	57.40	0.01	0.05	0.10	0.10	0.55	265.00	0.26	0.55	0.24	1.00	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.06	34.10	0.97	1.48	0.13	0.15	813.50	4845.00	0.00	0.02	0.58	0.79	48.38	52.30	0.00	0.03	0.10	0.10	0.39	118.70	0.22	0.45	0.17	0.63	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.06	34.00	0.97	1.33	0.13	0.15	816.00	2815.00	0.00	0.02	0.60	0.74	48.60	52.00	0.00	0.02	0.10	0.10	0.38	77.60	0.24	0.44	0.16	0.63	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.01	10.94	0.13	0.42	0.03	0.02	114.22	4452.57	0.00	0.01	0.10	0.24	3.77	3.96	0.00	0.02	0.00	0.00	0.16	98.44	0.06	0.08	0.08	0.25	0.00	0.00	0.00	0.00	0.0000	0.0000
	TUL-03	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.04	25.00	0.85	1.18	0.11	0.12	694.00	2380.00	0.00	0.01	0.46	0.55	44.80	49.10	0.00	0.02	0.10	0.10	0.25	57.30	0.14	0.38	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.06	0.06	48.10	1.11	2.04	0.16	0.16	950.00	11400.00	0.00	0.03	0.70	1.12	52.20	54.80	0.01	0.05	0.10	0.10	0.76	271.00	0.28	0.51	0.24	1.00	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.02	0.05	33.85	0.98	1.44	0.13	0.14	818.00	4770.00	0.00	0.02	0.58	0.77	48.85	51.73	0.00	0.03	0.10	0.10	0.48	117.08	0.22	0.43	0.16	0.63	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.06	31.15	0.97	1.27	0.13	0.14	814.00	2650.00	0.00	0.02	0.59	0.71	49.20	51.50	0.00	0.02	0.10	0.10	0.45	70.00	0.24	0.41	0.15	0.63	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.03	0.01	10.00	0.12	0.40	0.02	0.01	108.03	4426.93	0.00	0.01	0.10	0.25	3.46	2.41	0.00	0.02	0.00	0.00	0.26	102.81	0.06	0.06	0.07	0.25	0.00	0.00	0.00	0.00	0.0000	0.0000
	TUL-06/ SW16-3	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.04	18.00	0.75	1.00	0.15	0.15	642.00	1670.00	0.00	0.01	0.34	0.41	37.80	36.40	0.00	0.01	0.10	0.10	0.25	32.20	0.07	0.23	0.10	0.25	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.09	67.50	0.96	1.33	0.19	0.19	848.00	6490.00	0.00	0.03	0.52	0.61	45.20	44.10	0.01	0.03	0.10	0.10	0.52	150.00	0.14	0.32	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.06	37.75	0.85	1.14	0.16	0.17	728.00	3207.50	0.00	0.02	0.43	0.51	40.65	41.15	0.01	0.02	0.10	0.10	0.32	74.00	0.11	0.28	0.10	0.38	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.04	32.75	0.84	1.12	0.16	0.17	711.00	2335.00	0.00	0.01	0.43	0.52	39.80	42.05	0.00	0.02	0.10	0.10	0.25	56.90	0.11	0.29	0.10	0.38	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.03	24.10	0.09	0.16	0.02	0.02	87.74	2276.38	0.00	0.01	0.08	0.08	3.35	3.52	0.00	0.01	0.00	0.00	0.14	55.06	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
TRIBUTARY (ZONE 1)	SW16-1	Count		3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Minimum		0.00	0.03	24.50	0.72	0.95	0.18	0.19	893.00	2320.00	0.00	0.01	0.51	0.59	73.80	77.80	0.01	0.02	0.10	0.10	0.25	39.90	0.24	0.38	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.08	62.40	0.85	1.05	0.19	0.28	1010.00	2930.00	0.00	0.03	0.65	0.73	77.10	81.20	0.01	0.05	0.10	0.10	0.25	50.50	0.28	0.45	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.05	44.10	0.77	1.01	0.18	0.23	965.67	2546.67	0.00	0.02	0.57	0.65	75.93	79.23	0.01	0.03	0.10	0.10	0.25	46.57	0.25	0.42	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.05	45.40	0.75	1.03	0.18	0.23	994.00	2390.00	0.00	0.02	0.57	0.62	76.90	78.70	0.01	0.03	0.10	0.10	0.25	49.30	0.24	0.44	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.03	18.98	0.07	0.05	0.00	0.04	63.44	333.82	0.00	0.01	0.07	0.07	1.85	1.76	0.00	0.02	0.00	0.00	0.00	5.80	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
	W27	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.01	7.60	0.29	0.30	0.20	0.20	908.00	1170.00	0.00	0.01	0.41	0.45	96.10	98.80	0.01	0.01	0.10	0.10	0.25	3.60	0.32	0.46	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.10	101.00	0.42	0.91	0.34	0.57	1260.00	4000.00	0.00	0.03	0.68	0.67	181.00	151.00	0.01	0.09	0.10	0.10	0.25	24.20	0.66	0.73	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.04	45.28	0.33	0.53	0.25	0.32	1085.50	2320.00	0.00	0.02	0.55	0.53	136.78	126.95	0.01	0.04	0.10	0.10	0.25	15.03	0.47	0.56	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.02	36.25	0.32	0.46	0.23	0.26	1087.00	2055.00	0.00	0.01	0.55	0.49	135.00	129.00	0.01	0.03	0.10	0.10	0.25	16.15	0.45	0.52	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.05	44.25	0.06	0.27	0.06	0.17	190.42	1259.07	0.00	0.01	0.11	0.10	34.87	21.50	0.00	0.04	0.00	0.00	0.00	9.32	0.15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
	SW24-2	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.00	2.00	0.22	0.23	0.06	0.07	797.00	875.00	0.00	0.00	0.25	0.26	23.60	24.90	0.00	0.00	0.10	0.10	0.25	0.25	0.02	0.02	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.00	3.80	0.44	0.37	0.09	0.09	1500.00	1270.00	0.00	0.01	0.51	0.41	43.90	36.60	0.00	0.00	0.10	0.10	0.25	1.50	0.06	0.05	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.00	2.70	0.34	0.31	0.08	0.07	1199.25	1065.75	0.00	0.00	0.41	0.34	35.63	32.23	0.00	0.00	0.10	0.10	0.25	0.94	0.04	0.04	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.00	2.50	0.34	0.32	0.08	0.07	1250.00	1059.00	0.00	0.00	0.44	0.35	37.50	33.70	0.00	0.00	0.10	0.10	0.25	1.00	0.04	0.04	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.00	0.77	0.10	0.06	0.01	0.01	320.73	171.54	0.00	0.00	0.13	0.06	9.71	5.09	0.00	0.00	0.00	0.00	0.00	0.52	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
Effluent	5200 LEVEL ADIT	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.03	0.04	50.00	0.50	2.50	0.40	0.40	7820.00	7250.00	0.12	0.10	3.70	2.50	581.00	543.00	0.89	0.88	2.00	2.00	5.00	20.00	13.50	13.00	2.00	10.00	2.00	2.00	0.00	0.00	0.0000	0.0000
		Maximum		0.04	0.06	50.00	1.10	2.50	0.40	0.40	9970.00	9650.00	0.19	0.10	4.40	2.50	707.00	710.00	1.08	1.10	2.00	2.00	5.00	20.00	19.70	20.20	2.00	10.00	2.00	2.00	0.00	0.00	0.0000	0.0000
		Average		0.04	0.05	50.00	0.93	2.50	0.40	0.40	9155.00	8890.00	0.15	0.10	4.10	2.50	660.25	652.50	1.00	0.99	2.00	2.00	5.00	20.00	15.93	16.33	2.00	10.00	2.00	2.00	0.00	0.00	0.0000	0.0000
		Median		0.04	0.04	50.00	1.05	2.50	0.40	0.40	9415.00	9330.00	0.15	0.10	4.15	2.50	676.50	678.50	1.02	0.99	2.00	2.00	5.00	20.00	15.25	16.05	2.00	10.00	2.00	2.00	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.01	0.00	0.29	0.00	0.00	0.00	928.74	1132.34	0.04	0.00	0.29	0.00	55.30	77.81	0.08	0.11	0.00	0.00	0.00	0.00	2.65	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
	5400 LEVEL ADIT	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.07	32.00	0.56	0.07	0.20	0.20	3570.00	3550.00	0.00	0.06	2.19	1.25	172.00	159.00	0.13	0.12	0.50	0.50	1.25	5.00	1.59	1.74	0.50	2.50	0.50	0.50	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.11	50.00	0.64	1.25	0.25	0.36	4460.00	4110.00	0.06	0.16	5.45	5.30	199.00	190.00	0.18	0.16	2.00	1.00	2.50	20.00	2.27	2.34	1.00	5.00	1.00	1.00	0.00	0.00	0.0000	0.0000
		Average		0.00	0.09	45.50	0.58	0.36	0.22	0.28	4062.50	3850.00	0.03	0.12	4.21	3.69	184.00	173.00	0.14	0.13	1.25	0.63	1.88	8.75	1.92	2.06	0.75	3.25	0.75	0.75	0.00	0.00	0.0000	0.0000
		Median		0.00	0.08	50.00	0.57	0.07	0.22	0.27	4110.00	3870.00	0.03	0.12	4.60	4.10	182.50	171.50	0.14	0.13	1.25	0.50	1.88	5.00	1.91	2.08	0.75	3.25	0.75	0.75	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.02	9.00	0.04	0.59	0.03	0.07	370.71	230.36	0.02	0.05	1.49	1.73	11.75	13.09	0.02	0.02	0.87	0.25	0.72	7.50	0.37	0.25	0.29	1.44	0.29	0.29	0.00	0.00	0.0000	0.0000
	5400 CLEAN WATER PIPE	Count		1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Minimum		0.00	0.00	11.00	0.71	0.68	0.38	0.37	3850.00	4500.00	0.01	0.06	13.20	13.10	221.00	223.00	0.05	0.05	0.20	0.20	0.50	2.00	0.08	1.88	0.20	2.50	0.50	0.50	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.00	11.00	0.71	0.68	0.38	0.37	3850.00	4500.00	0.01	0.06	13.20	13.10	221.00	223.00	0.05	0.05	0.20	0.20	0.50	2.00	0.08	1.88	0.20	2.50	0.50	0.50	0.00	0.00	0.0000	0.0000
		Average		0.00	#DIV/0!	11.00	0.71	0.68	0.38	0.37	3850.00	4500.00	0.01	0.06	13.20	13.10	221.00	223.00	0.05	0.05	0.20	0.20	0.50	2.00	0.08	1.88	0.20	2.50	0.50	0.50	0.00	0.00	0.0000	0.0000
		Median		0.00	#NUM!	11.00	0.71	0.68	0.38	0.37	3850.00	4500.00	0.01	0.06	13.20	13.10	221.00	223.00	0.05	0.05	0.20	0.20	0.50	2.00	0.08	1.88	0.20	2.50	0.50	0.50	0.00	0.00	0.0000	0.0000
		Standard Deviation		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	5900 LEVEL ADIT	Count		3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		Minimum		0.00	0.00	5.20	0.75	0.69	0.19	0.19	3360.00	3080.00	0.00	0.01	1.41	1.06	178.00	154.00	0.02	0.01	0.10	0.10	0.25	1.00	0.19	0.26	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.00	14.80	0.77	0.73	0.20	0.24	3590.00	4520.00	0.00	0.05	1.50	1.34	198.00	204.00	0.02	0.02	0.10	0.10	0.25	1.00	0.21	0.83	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Average		0.00	0.00	8.47	0.76	0.71	0.20	0.21	3446.67	3686.67	0.00	0.02	1.45	1.24	188.00	177.67	0.02	0.01	0.10	0.10	0.25	1.00	0.20	0.45	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Median		0.00	0.00	5.40	0.76	0.71	0.20	0.20	3390.00	3460.00	0.00	0.01	1.44	1.33	188.00	175.00	0.02	0.01	0.10	0.10	0.25	1.00	0.21	0.27	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.00	5.49	0.01	0.02	0.00	0.03	125.11	746.28	0.00	0.03	0.05	0.16	10.00	25.11	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000
	SE2	Count		4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.00	0.02	50.00	0.74	0.07	0.10	0.10	5620.00	5180.00	0.06	0.05	4.18	3.50	226.00	212.00	0.21	0.22	0.50	0.50	1.25	5.00	2.79	3.27	0.50	2.50	0.50	0.50	0.00	0.00	0.0000	0.0000
		Maximum		0.00	0.03	50.00	0.90	1.25	0.20	0.22	7010.00	6920.00	0.08	0.13	4.90	4.50	268.00	266.00	0.27	0.25	1.00	1.00	2.50	10.00	3.89	3.85	1.00	5.00	1.00	1.00	0.00	0.00	0.0000	0.0000
		Average		0.00	0.03	50.00	0.81	0.36	0.18	0.18	6550.00	6057.50	0.07	0.11	4.66	4.05	248.25	232.00	0.25	0.24	0.88	0.63	2.19	6.25	3.48	3.56	0.88	4.38	0.88	0.88	0.00	0.00	0.0000	0.0000
		Median		0.00	0.03	50.00	0.81	0.07	0.20	0.21	6785.00	6065.00	0.06	0.12	4.78	4.10	249.50	225.00	0.26	0.24	1.00	0.50	2.50	5.00	3.61	3.56	1.00	5.00	1.00	1.00	0.00	0.00	0.0000	0.0000
		Standard Deviation		0.00	0.01	0.00	0.07	0.59	0.05	0.06	640.05	713.79	0.01	0.04	0.33	0.48	21.36	23.54	0.03	0.01	0.25	0.25	0.63	2.50	0.48	0.24	0.25	1.75	0.25	0.25	0.00	0.00	0.0000	0.0000
	WTP POND	Count		4	3	4	4	4	4	4	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Minimum		0.01	0.02	16.30	1.13	0.96	0.08	0.08	2740.00	2380.00	0.00	0.00	1.90	1.43	196.00	155.00	0.01	0.01	0.10	0.10	0.25	0.25	0.09	0.08	0.10	0.50	0.10	0.20	0.00	0.00	0.0000	0.0000
		Maximum		0.01	0.04	29.50	1.21	1.15	0

Table 8: Summary Statistics by Sampling Location

Location Groups	Location Name	Summary Statistic	Vanadium	Zinc	Zinc	Zirconium	Zirconium
Parameter Groups			Metals				
Parameters			Vanadium	Zinc	Zinc	Zirconium	Zirconium
Filtered or Total			T	F	T	F	T
RDL			0.2 - 4	0.1 - 2	0.1 - 20	0.1 - 2	0.1 - 2
Result Unit			µg/L	µg/L	µg/L	µg/L	µg/L
Zone 1	TUL-00/W10	Count	4	4	4	4	4
		Minimum	3.18	0.05	6.80	0.05	0.05
		Maximum	15.80	0.14	20.30	0.05	0.72
		Average	6.97	0.09	11.58	0.05	0.25
		Median	4.45	0.08	9.60	0.05	0.11
		Standard Deviation	5.98	0.05	6.21	0.00	0.32
	SW21-2	Count	4	4	4	4	4
		Minimum	1.28	0.05	2.90	0.05	0.05
		Maximum	9.23	0.27	10.80	0.05	0.05
		Average	4.03	0.19	6.75	0.05	0.05
		Median	2.81	0.22	6.65	0.05	0.05
		Standard Deviation	3.67	0.10	3.75	0.00	0.00
	TUL-03	Count	4	4	4	4	4
		Minimum	2.44	0.05	6.70	0.05	0.05
		Maximum	12.80	0.22	15.70	0.05	0.75
		Average	5.60	0.11	9.58	0.05	0.26
		Median	3.58	0.08	7.95	0.05	0.12
		Standard Deviation	4.84	0.08	4.13	0.00	0.33
	TUL-03	Count	4	4	4	4	4
		Minimum	2.65	0.05	6.20	0.05	0.05
		Maximum	12.40	0.25	17.70	0.05	0.80
		Average	5.34	0.16	9.40	0.05	0.29
		Median	3.16	0.18	6.85	0.05	0.16
		Standard Deviation	4.71	0.10	5.54	0.00	0.34
	TUL-06/ SW16-3	Count	4	4	4	4	4
		Minimum	1.72	0.05	4.00	0.05	0.05
		Maximum	9.24	0.47	13.40	0.05	0.39
		Average	4.71	0.26	8.68	0.05	0.14
		Median	3.93	0.25	8.65	0.05	0.05
		Standard Deviation	3.66	0.18	4.67	0.00	0.17
TRIBUTARY (ZONE 1)	SW16-1	Count	3	3	3	3	3
		Minimum	2.37	0.05	5.30	0.05	0.05
		Maximum	4.18	0.21	13.70	0.05	0.14
		Average	3.14	0.14	9.00	0.05	0.08
		Median	2.86	0.16	8.00	0.05	0.05
		Standard Deviation	0.94	0.08	4.29	0.00	0.05
	W27	Count	4	4	4	4	4
		Minimum	0.49	0.05	2.30	0.05	0.05
		Maximum	7.03	3.91	19.80	0.05	0.20
		Average	3.26	1.09	9.65	0.05	0.11
		Median	2.77	0.19	8.25	0.05	0.09
		Standard Deviation	2.95	1.88	8.70	0.00	0.07
	SW24-2	Count	4	4	4	4	4
		Minimum	0.10	0.05	0.05	0.05	0.05
		Maximum	0.10	1.16	1.90	0.05	0.05
		Average	0.10	0.49	0.71	0.05	0.05
		Median	0.10	0.37	0.44	0.05	0.05
		Standard Deviation	0.00	0.54	0.82	0.00	0.00
Effluent	5200 LEVEL ADIT	Count	4	4	4	4	4
		Minimum	2.00	84100.00	84100.00	1.00	1.00
		Maximum	2.00	96800.00	106000.00	1.00	1.00
		Average	2.00	91325.00	97000.00	1.00	1.00
		Median	2.00	92200.00	98950.00	1.00	1.00
		Standard Deviation	0.00	5857.40	10099.83	0.00	0.00
	5400 LEVEL ADIT	Count	4	4	4	4	4
		Minimum	0.50	33700.00	34200.00	0.25	0.25
		Maximum	1.00	42700.00	41600.00	0.50	0.50
		Average	0.63	36675.00	36625.00	0.38	0.31
		Median	0.50	35150.00	35350.00	0.38	0.25
		Standard Deviation	0.25	4084.42	3366.87	0.14	0.13
	5400 CLEAN WATER PIPE	Count	1	1	1	1	1
		Minimum	1.14	10800.00	11600.00	0.10	0.10
		Maximum	1.14	10800.00	11600.00	0.10	0.10
		Average	1.14	10800.00	11600.00	0.10	0.10
		Median	1.14	10800.00	11600.00	0.10	0.10
		Standard Deviation	NC	NC	NC	NC	NC
	5900 LEVEL ADIT	Count	3	3	3	3	3
		Minimum	0.10	1300.00	1560.00	0.05	0.05
		Maximum	0.47	1440.00	2390.00	0.10	0.05
		Average	0.22	1363.33	1840.00	0.07	0.05
		Median	0.10	1350.00	1570.00	0.05	0.05
		Standard Deviation	0.21	70.95	476.34	0.03	0.00
	SE2	Count	4	4	4	4	4
		Minimum	0.50	35600.00	35000.00	0.25	0.25
		Maximum	1.00	40100.00	39700.00	0.50	0.50
		Average	0.63	38250.00	37325.00	0.44	0.31
		Median	0.50	38650.00	37300.00	0.50	0.25
		Standard Deviation	0.25	1990.81	2002.29	0.13	0.13
	WTP POND	Count	4	4	4	4	4
		Minimum	0.10	899.00	1160.00	0.05	0.05
		Maximum	0.10	2480.00	2350.00	0.05	0.05
		Average	0.10	1348.75	1685.00	0.05	0.05
		Median	0.10	1008.00	1615.00	0.05	0.05
		Standard Deviation	0.00	756.37	537.93	0.00	0.00
	400 LEVEL ADI	Count	1	1	1	1	1
		Minimum	0.22	164.00	233.00	0.05	0.05
		Maximum	0.22	164.00	233.00	0.05	0.05
		Average	0.22	164.00	233.00	0.05	0.05
		Median	0.22	164.00	233.00	0.05	0.05
		Standard Deviation	NC	NC	NC	NC	NC
Zone 2	SW24-1	Count	4	4	4	4	4
		Minimum	0.98	0.05	3.00	0.05	0.05
		Maximum	7.82	0.23	11.50	0.05	0.70
		Average	4.26	0.12	8.18	0.05	0.23
		Median	4.12	0.10	9.10	0.05	0.09
		Standard Deviation	3.00	0.09	3.98	0.00	0.31
	SW24-11	Count	4	4	4	4	4
		Minimum	0.81	0.05	4.50	0.05	0.05
		Maximum	6.90	0.20	11.40	0.05	0.19
		Average	3.34	0.13	7.35	0.05	0.09
		Median	2.82	0.13	6.75	0.05	0.05
		Standard Deviation	2.56	0.06	2.94	0.00	0.07
	W11	Count	4	4	4	4	4
		Minimum	0.20	5280.00	5160.00	0.05	0.05
		Maximum	0.50	14000.00	14800.00	0.10	0.10
		Average	0.30	10312.50	10490.00	0.09	0.09
		Median	0.24	10985.00	11000.00	0.10	0.10
		Standard Deviation	0.14	3798.54	4032.58	0.03	0.03
	W44	Count	4	4	4	4	4
		Minimum	0.10	0.15	0.27	0.05	0.05
		Maximum	0.10	4.32	3.50	0.05	0.05
		Average	0.10	1.76	1.93	0.05	0.05
		Median	0.10	1.29	1.98	0.05	0.05
		Standard Deviation	0.00	1.80	1.35	0.00	0.00
	W45	Count	4	4	4	4	4
		Minimum	0.10	0.23	0.43	0.05	0.05
		Maximum	0.10	3.35	3.80	0.05	0.05
		Average	0.10	1.49	2.00	0.05	0.05
		Median	0.10	1.19	1.88	0.05	0.05
		Standard Deviation	0.00	1.34	1.58	0.00	0.00
	W46/SW21-4	Count	4	4	4	4	4
		Minimum	1.85	0.05	7.10	0.05	0.05
		Maximum	9.14	0.29	12.60	0.05	0.88
		Average	4.43	0.14	9.20	0.05	0.27
		Median	3.36	0.11	8.55	0.05	0.08
		Standard Deviation	3.28	0.11	2.38	0.00	0.41
TRIBUTARY (ZONE 2)	CC-01	Count	1	1	1	1	1
		Minimum	0.10	42.30	45.70	0.05	0.05
		Maximum	0.10	42.30	45.70	0.05	0.05
		Average	0.10	42.30	45.70	0.05	0.05
		Median	0.10	42.30	45.70	0.05	0.05
		Standard Deviation	NC	NC	NC	NC	NC
	CC-02	Count	4	4	4	4	4
		Minimum	0.10	36.50	40.50	0.05	0.05
		Maximum	0.10	64.80	65.90	0.05	0.05
		Average	0.10	52.48	55.48	0.05	0.05
		Median	0.10	54.30	57.75	0.05	0.05
		Standard Deviation	0.00	12.99	12.39	0.00	0.00
	CC-04	Count	3	2	3	3	3
		Minimum	0.10	0.43	0.50	0.05	0.05
		Maximum	0.21	1.11	1.80	0.05	0.05
		Average	0.14	0.77	1.17	0.05	0.05
		Median	0.10	0.77	1.20	0.05	0.05
		Standard Deviation	0.06	0.48	0.65	0.00	0.00
Zone 3	SW16-8	Count	4	4	4	4	4
		Minimum	0.10	4.09	9.60	0.05	0.05
		Maximum	0.86	7.08	20.40	0.05	0.05
		Average	0.47	6.28	14.55	0.05	0.05
		Median	0.46	6.97	14.10	0.05	0.05
		Standard Deviation	0.31	1.46	4.61	0.00	0.00
	SW24-4	Count	4	4	4	4	4
		Minimum	0.10	0.37	3.80	0.05	0.05
		Maximum	0.63	140.00	162.00	0.05	0.05
		Average	0.42	44.69	52.83	0.05	0.05
		Median	0.47	19.19	22.75	0.05	0.05
		Standard Deviation	0.23	65.32	74.23	0.00	0.00
	TUL-09	Count	4	4	4	4	4
		Minimum	2.51	0.05	7.40	0.05	0.05
		Maximum	8.75	0.19	11.60	0.05	0.74
		Average	5.03	0.12	9.43	0.05	0.27
		Median	4.44	0.12	9.35	0.05	0.14
		Standard Deviation	2.65	0.08	1.76	0.00	0.33
TRIBUTARY (ZONE 3)	SW21-5	Count	4	4	4	4	4
		Minimum	0.38	0.05	0.50	0.05	0.05
		Maximum	0.83	5.03	2.60	0.05	0.05
		Average	0.53	1.45	1.29	0.05	0.05
		Median	0.46	0.36	1.02	0.05	0.05
		Standard Deviation	0.20	2.39	0.91	0.00	0.00
Zone 4	SW24-6	Count	4	4	4	4	4
		Minimum	1.64	0.05	4.00	0.05	0.05
		Maximum	8.35	0.41	13.30	0.05	0.72
		Average	4.67	0.16	8.45	0.05	0.26
		Median	4.35	0.09	8.25	0.05	0.14
		Standard Deviation	2.91	0.17	4.16	0.00	0.31
	SW24-7	Count	4	4	4	4	4
		Minimum	1.44	0.18	6.20	0.05	0.05
		Maximum	8.39	1.03	12.40	0.05	1.13
		Average	4.18	0.42	8.38	0.05	0.34
		Median	3.45	0.23	7.45	0.05	0.09
		Standard Deviation	2.96	0.41	2.81	0.00	0.53
	SW24-8	Count	4	4	4	4	4
		Minimum	0.10	0.33	0.78	0.05	0.05
		Maximum	0.10	3.33	3.38	0.05	0.05
		Average	0.10	1.47	1.77	0.05	0.05
		Median	0.10	1.11	1.45	0.05	0.05
		Standard Deviation	0.00	1.30	1.13	0.00	0.00
	SW24-10	Count	4	4	4	4	4
		Minimum	2.24	0.13	7.10	0.05	0.05
		Maximum	7.70	0.21	11.00	0.05	0.55
		Average	4.60	0.18	9.50	0.05	0.18
		Median	4.23	0.19	9.95	0.05	0.05
		Standard Deviation	2.40	0.04	1.81	0.00	0.25
	TUL-12	Count	4	4	4	4	4
		Minimum	0.35	0.86	3.80	0.05	0.05
		Maximum	1.91	24.30	47.90	0.05	0.24
		Average	0.95	11.33	19.07	0.05	0.13
		Median	0.76	10.08	12.28	0.05	0.11
		Standard Deviation	0.73	11.64	20.65	0.00	0.09
	W32/TUL-15	Count	4	4	4	4	4
		Minimum	1.27	0.11	4.10	0.05	0.05
		Maximum	8.17	0.35	12.40	0.05	0.55
		Average	4.45	0.21	8.28	0.05	0.18
		Median	4.18	0.19	8.30	0.05	0.05
		Standard Deviation	3.15	0.10	3.80	0.00	0.25
TRIBUTARY (ZONE 4)	SW24-5	Count	1	1	1	1	1
		Minimum	0.10	0.05	0.05	0.05	0.05
		Maximum	0.10	0.05	0.05	0.05	0.05
		Average	0.10	0.05	0.05	0.05	0.05
		Median	0.10	0.05	0.05	0.05	0.05
		Standard Deviation	NC	NC	NC	NC	NC

Notes:

'-'	sample not analyzed for parameter indicated
<	less than reported detection limit
Sample Type	N (Normal)
RDL	reported detection limit
m	metres
%	percent
µg/L	microgram per litre
µS/cm	microsiemens per centimetre
deg C	degree Celsius
mg/L	milligram per litre
mV	millivolts
NA	not applicable
NTU	nephelometric turbidity unit
pH Units	potential of hydrogen units
uS/cm	microsiemens per centimetre
NC	not calculated

Appendix D Sediment

Tulsequah Chief Surface Water Monitoring Program 2025 Report

Tulsequah Chief Mine, British Columbia

Teck Resources Limited

SLR Project No.: 234.030071.00002

February 2, 2026

Your P.O. #: WHR413
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 08553586, 08553590, 08553594

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/08/01
Report #: R3692373
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C557810
Received: 2025/06/26, 09:26

Sample Matrix: Sediment
Samples Received: 50

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BC total organic carbon LECO method (1)	1	N/A	2025/07/10	CAL SOP-00243	BCMOE TOC s 08/14
BC total organic carbon LECO method (1)	49	N/A	2025/07/09	CAL SOP-00243	BCMOE TOC s 08/14
Elements by ICPMS (total) (2)	15	2025/06/30	2025/07/01	BBY7SOP-00004 / BBY7SOP-00001	EPA 6020b R2 m
Elements by ICPMS (total) (2)	35	2025/06/30	2025/07/02	BBY7SOP-00004 / BBY7SOP-00001	EPA 6020b R2 m
pH (2:1 DI Water Extract)	33	2025/06/30	2025/06/30	BBY6SOP-00028	BCMOE BCLM Mar2005 m
pH (2:1 DI Water Extract)	17	2025/06/30	2025/07/02	BBY6SOP-00028	BCMOE BCLM Mar2005 m
Total Carbon & Sulphur in Soil (1)	20	N/A	2025/07/07	CAL SOP-00243	LECO 203-821-498 m
Total Carbon & Sulphur in Soil (1)	20	N/A	2025/07/08	CAL SOP-00243	LECO 203-821-498 m
Total Carbon & Sulphur in Soil (1)	10	N/A	2025/07/09	CAL SOP-00243	LECO 203-821-498 m
Texture by Hydrometer (Sand, Silt, Clay)	25	N/A	2025/07/03	BBY6SOP-00051	Carter 2nd ed 55.3 m
Texture by Hydrometer (Sand, Silt, Clay)	9	N/A	2025/07/07	BBY6SOP-00051	Carter 2nd ed 55.3 m
Texture by Hydrometer (Sand, Silt, Clay)	16	N/A	2025/07/09	BBY6SOP-00051	Carter 2nd ed 55.3 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your P.O. #: WHR413
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 08553586, 08553590, 08553594

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/08/01
Report #: R3692373
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C557810
Received: 2025/06/26, 09:26

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) The sample is prepaired per the BC MOE Lab Manual "Strong Acid Leachable Metals (SALM) in Soil - Prescriptive", Revision Nov 6, 2015.

Encryption Key

Shaira Sales
Project Solutions Representative
01 Aug 2025 16:08:27

Please direct all questions regarding this Certificate of Analysis to:
Nahed Amer, Key Account Specialist
Email: Nahed.AMER@bureauveritas.com
Phone# (604) 734 7276

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SEDIMENT

Bureau Veritas ID		DNY732	DNY733	DNY734	DNY735	DNY736	DNY737		
Sampling Date		2025/06/18	2025/06/18	2025/06/18	2025/06/18	2025/06/18	2025/06/19		
COC Number		08553586	08553586	08553586	08553586	08553586	08553586		
	UNITS	SW24-7-1	SW24-7-2	SW24-7-3	SW24-7-4	SW24-7-5	TUL-09/W51-1	RDL	QC Batch
Physical Properties									
% sand by hydrometer	%	85	95	80	68	71	91	2.0	C006373
% silt by hydrometer	%	13	3.3	18	27	25	6.7	2.0	C006373
Clay Content	%	2.7	<2.0	2.1	4.8	4.2	2.4	2.0	C006373
RDL = Reportable Detection Limit									

Bureau Veritas ID		DNY738		DNY739	DNY740	DNY741		
Sampling Date		2025/06/19		2025/06/19	2025/06/19	2025/06/19		
COC Number		08553586		08553586	08553586	08553586		
	UNITS	TUL-09/W51-1-SPLIT	QC Batch	TUL-09/W51-2	TUL-09/W51-3-SPLIT	TUL-09/W51-3	RDL	QC Batch
Physical Properties								
% sand by hydrometer	%	91	C006373	59	94	94	2.0	C007287
% silt by hydrometer	%	7.9	C006373	36	4.6	4.4	2.0	C007287
Clay Content	%	<2.0	C006373	4.9	<2.0	<2.0	2.0	C007287
RDL = Reportable Detection Limit								

Bureau Veritas ID		DNY742	DNY743	DNY744	DNY745	DNY746	DNY747	DNY748		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19		
COC Number		08553586	08553586	08553590	08553590	08553590	08553590	08553590		
	UNITS	TUL-09/W51-4	TUL-09/W51-5	SW24-11-1	SW24-11-2	SW24-11-3	SW24-11-4	SW24-11-5	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	88	68	95	95	94	97	96	2.0	C007287
% silt by hydrometer	%	9.5	28	3.3	2.9	4.9	2.1	3.0	2.0	C007287
Clay Content	%	2.5	3.8	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C007287
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY749	DNY750	DNY751	DNY752	DNY753	DNY754	DNY756		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/20	2025/06/20		
COC Number		08553590	08553590	08553590	08553590	08553590	08553590	08553590		
	UNITS	SW16-8-1	SW16-8-2	SW16-8-3	SW16-8-4	SW16-8-5	W11-1	W11-1 SPLIT	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	96	97	95	94	95	97	96	2.0	C007287
% silt by hydrometer	%	4.3	3.4	4.7	4.2	4.4	2.7	3.7	2.0	C007287
Clay Content	%	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C007287
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SEDIMENT

Bureau Veritas ID		DNY757		DNY758	DNY759	DNY760	DNY761	DNY762		
Sampling Date		2025/06/20		2025/06/20	2025/06/20	2025/06/20	2025/06/20	2025/06/20		
COC Number		08553590		08553590	08553590	08553590	08553590	08553590		
	UNITS	W11-2	QC Batch	W11-3	W11-4	W11-5	CC-01-1	CC-01-2	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	96	C007287	94	92	96	94	93	2.0	C009611
% silt by hydrometer	%	3.9	C007287	2.4	6.0	4.0	5.9	7.7	2.0	C009611
Clay Content	%	<2.0	C007287	3.5	<2.0	<2.0	<2.0	<2.0	2.0	C009611
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY763	DNY764	DNY765	DNY766		DNY767	DNY768		
Sampling Date		2025/06/20	2025/06/20	2025/06/20	2025/06/21		2025/06/21	2025/06/21		
COC Number		08553590	08553590	08553590	08553590		08553590	08553590		
	UNITS	CC-01-3	CC-01-4	CC-01-5	TUL-06-1	QC Batch	TUL-06-2	TUL-06-3	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	92	93	92	67	C009611	62	68	2.0	C011644
% silt by hydrometer	%	7.2	6.6	7.2	32	C009611	36	28	2.0	C011644
Clay Content	%	<2.0	<2.0	<2.0	<2.0	C009611	2.1	3.9	2.0	C011644
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY769	DNY770	DNY771	DNY772	DNY773	DNY774	DNY775		
Sampling Date		2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21		
COC Number		08553590	08553590	08553590	08553590	08553594	08553594	08553594		
	UNITS	TUL-06-4	TUL-06-5	TUL-06-5 SPLIT	TUL-00-1	TUL-00-2	TUL-00-3	TUL-00-4	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	57	72	61	96	95	95	95	2.0	C011644
% silt by hydrometer	%	38	24	34	3.2	3.5	3.5	2.4	2.0	C011644
Clay Content	%	4.6	4.1	5.3	<2.0	<2.0	<2.0	2.6	2.0	C011644
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY776	DNY777	DNY778	DNY779	DNY780	DNY781	DNY782		
Sampling Date		2025/06/21	2025/06/22	2025/06/22	2025/06/22	2025/06/22	2025/06/22	2025/06/22		
COC Number		08553594	08553594	08553594	08553594	08553594	08553594	08553594		
	UNITS	TUL-00-5	SW16-1-1	SW16-1-2	SW16-1-3	SW16-1-4	SW16-1-5	SW16-1-5 SPLIT	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	96	92	94	70	94	94	94	2.0	C011644
% silt by hydrometer	%	3.0	7.0	5.2	27	4.6	4.4	5.3	2.0	C011644
Clay Content	%	<2.0	<2.0	<2.0	3.0	<2.0	<2.0	<2.0	2.0	C011644
RDL = Reportable Detection Limit										

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MISCELLANEOUS (SEDIMENT)

Bureau Veritas ID		DNY732		DNY733	DNY734	DNY735		DNY736		
Sampling Date		2025/06/18		2025/06/18	2025/06/18	2025/06/18		2025/06/18		
COC Number		08553586		08553586	08553586	08553586		08553586		
	UNITS	SW24-7-1	QC Batch	SW24-7-2	SW24-7-3	SW24-7-4	QC Batch	SW24-7-5	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.36	C009912	0.47	0.80	0.90	C009906	0.90	0.050	C009907
Total Sulphur (S)	%	0.06	C006019	<0.06	0.07	<0.06	C009756	<0.06	0.06	C009797
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY737	DNY738	DNY739	DNY740	DNY741		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19		
COC Number		08553586	08553586	08553586	08553586	08553586		
	UNITS	TUL-09/W51-1	TUL-09/W51-1-SPLIT	TUL-09/W51-2	TUL-09/W51-3-SPLIT	TUL-09/W51-3	RDL	QC Batch
Misc. Inorganics								
Total Organic Carbon (C)	%	0.72	0.70	0.78	0.73	0.63	0.050	C009907
Total Sulphur (S)	%	<0.06	<0.06	0.07	<0.06	<0.06	0.06	C009797
RDL = Reportable Detection Limit								

Bureau Veritas ID		DNY742	DNY743	DNY744	DNY745		DNY746		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19		2025/06/19		
COC Number		08553586	08553586	08553590	08553590		08553590		
	UNITS	TUL-09/W51-4	TUL-09/W51-5	SW24-11-1	SW24-11-2	QC Batch	SW24-11-3	RDL	QC Batch
Misc. Inorganics									
Total Organic Carbon (C)	%	0.70	0.79	0.51	0.59	C009906	0.54	0.050	C009907
Total Sulphur (S)	%	<0.06	0.06	<0.06	<0.06	C009756	0.09	0.06	C009797
RDL = Reportable Detection Limit									

Bureau Veritas ID		DNY747	DNY748	DNY749		DNY750		DNY751		
Sampling Date		2025/06/19	2025/06/19	2025/06/19		2025/06/19		2025/06/19		
COC Number		08553590	08553590	08553590		08553590		08553590		
	UNITS	SW24-11-4	SW24-11-5	SW16-8-1	QC Batch	SW16-8-2	QC Batch	SW16-8-3	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.57	0.59	0.56	C009906	0.79	C013325	0.55	0.050	C009906
Total Sulphur (S)	%	<0.06	<0.06	0.29	C009756	<0.06	C009756	0.13	0.06	C009756
RDL = Reportable Detection Limit										

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MISCELLANEOUS (SEDIMENT)

Bureau Veritas ID		DNY752	DNY753	DNY754	DNY756	DNY757		DNY758		
Sampling Date		2025/06/19	2025/06/19	2025/06/20	2025/06/20	2025/06/20		2025/06/20		
COC Number		08553590	08553590	08553590	08553590	08553590		08553590		
	UNITS	SW16-8-4	SW16-8-5	W11-1	W11-1 SPLIT	W11-2	QC Batch	W11-3	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.25	0.70	0.38	0.34	0.59	C009907	0.50	0.050	C009906
Total Sulphur (S)	%	<0.06	<0.06	<0.06	<0.06	0.31	C009797	0.06	0.06	C009756
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY759		DNY760	DNY761	DNY762		DNY763		
Sampling Date		2025/06/20		2025/06/20	2025/06/20	2025/06/20		2025/06/20		
COC Number		08553590		08553590	08553590	08553590		08553590		
	UNITS	W11-4	QC Batch	W11-5	CC-01-1	CC-01-2	QC Batch	CC-01-3	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.68	C009906	0.38	3.6	3.0	C009907	2.3	0.050	C009912
Total Sulphur (S)	%	<0.06	C009756	<0.06	<0.06	<0.06	C009797	0.07	0.06	C006019
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY764	DNY765	DNY766	DNY767	DNY768	DNY769	DNY770		
Sampling Date		2025/06/20	2025/06/20	2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21		
COC Number		08553590	08553590	08553590	08553590	08553590	08553590	08553590		
	UNITS	CC-01-4	CC-01-5	TUL-06-1	TUL-06-2	TUL-06-3	TUL-06-4	TUL-06-5	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	1.8	3.8	0.55	0.40	0.47	0.40	0.39	0.050	C009912
Total Sulphur (S)	%	0.35	0.13	0.08	0.27	0.15	0.07	0.07	0.06	C006019
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY771		DNY772	DNY773	DNY774	DNY775	DNY776		
Sampling Date		2025/06/21		2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21		
COC Number		08553590		08553590	08553594	08553594	08553594	08553594		
	UNITS	TUL-06-5 SPLIT	QC Batch	TUL-00-1	TUL-00-2	TUL-00-3	TUL-00-4	TUL-00-5	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.39	C009912	0.18	0.27	0.17	0.18	0.098	0.050	C009906
Total Sulphur (S)	%	0.08	C006019	<0.06	0.08	<0.06	<0.06	<0.06	0.06	C009756
RDL = Reportable Detection Limit										

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MISCELLANEOUS (SEDIMENT)

Bureau Veritas ID		DNY777	DNY778		DNY779		DNY780	DNY781		
Sampling Date		2025/06/22	2025/06/22		2025/06/22		2025/06/22	2025/06/22		
COC Number		08553594	08553594		08553594		08553594	08553594		
	UNITS	SW16-1-1	SW16-1-2	QC Batch	SW16-1-3	QC Batch	SW16-1-4	SW16-1-5	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.46	0.38	C009907	0.73	C009906	0.45	0.45	0.050	C009907
Total Sulphur (S)	%	0.06	0.07	C009797	0.13	C009756	0.08	0.13	0.06	C009797
RDL = Reportable Detection Limit										

Bureau Veritas ID		DNY782		
Sampling Date		2025/06/22		
COC Number		08553594		
	UNITS	SW16-1-5 SPLIT	RDL	QC Batch
Misc. Inorganics				
Total Organic Carbon (C)	%	0.41	0.050	C009907
Total Sulphur (S)	%	0.10	0.06	C009797
RDL = Reportable Detection Limit				

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY732	DNY733	DNY734	DNY735	DNY736	DNY737		
Sampling Date		2025/06/18	2025/06/18	2025/06/18	2025/06/18	2025/06/18	2025/06/19		
COC Number		08553586	08553586	08553586	08553586	08553586	08553586		
	UNITS	**SW24-7-1**	**SW24-7-2**	**SW24-7-3**	**SW24-7-4**	**SW24-7-5**	**TUL-09/W51-1**	**RDL**	**QC Batch**
Physical Properties									
Soluble (2:1) pH	pH	8.38	8.50	8.29	8.17	8.13	8.18	N/A	C005990
Total Metals by ICPMS									
Total Aluminum (Al)	mg/kg	10100	10500	10600	11800	11400	10400	100	C005973
Total Antimony (Sb)	mg/kg	1.72	1.04	2.98	3.19	3.39	3.70	0.10	C005973
Total Arsenic (As)	mg/kg	33.8	19.0	46.4	58.0	59.7	59.5	0.20	C005973
Total Barium (Ba)	mg/kg	142	103 (1)	171	207	173	138	0.20	C005973
Total Beryllium (Be)	mg/kg	0.32	0.25	0.40	0.54	0.49	0.50	0.20	C005973
Total Bismuth (Bi)	mg/kg	0.11	0.11	0.14	0.16	0.16	0.15	0.10	C005973
Total Boron (B)	mg/kg	5.6	3.3	8.2	8.3	7.4	6.6	1.0	C005973
Total Cadmium (Cd)	mg/kg	0.650	0.489	0.768	1.23	1.26	1.12	0.050	C005973
Total Calcium (Ca)	mg/kg	12900	10600	16600	22300	22300	25400	100	C005973
Total Chromium (Cr)	mg/kg	32.2	30.9	33.5	40.7	40.2	39.1	0.50	C005973
Total Cobalt (Co)	mg/kg	11.2	9.85	12.4	15.4	15.4	13.6	0.10	C005973
Total Copper (Cu)	mg/kg	40.8	37.5	41.3	51.5	51.6	45.2	0.50	C005973
Total Iron (Fe)	mg/kg	28300	26200	28800	33600	33700	32200	100	C005973
Total Lead (Pb)	mg/kg	8.51	6.98	8.62	11.1	11.1	11.0	0.10	C005973
Total Lithium (Li)	mg/kg	12.6	12.4	15.8	17.9	17.8	19.5	0.50	C005973
Total Magnesium (Mg)	mg/kg	9690	9390	10300	12500	12200	12000	100	C005973
Total Manganese (Mn)	mg/kg	487	441	520	621	621	595	0.20	C005973
Total Mercury (Hg)	mg/kg	0.178	0.065	0.279	0.146	0.161	0.159	0.050	C005973
Total Molybdenum (Mo)	mg/kg	3.56	3.34	4.36	5.82	5.93	6.47	0.10	C005973
Total Nickel (Ni)	mg/kg	50.0	36.2	58.5	89.1	86.0	78.8	0.50	C005973
Total Phosphorus (P)	mg/kg	747	678	768	831	820	858	10	C005973
Total Potassium (K)	mg/kg	1170	1150 (1)	1240	1380	1270	1090	100	C005973
Total Selenium (Se)	mg/kg	1.07	0.71	1.72	2.06	1.94	2.03	0.50	C005973
Total Silver (Ag)	mg/kg	0.128	0.097	0.131	0.171	0.184	0.187	0.050	C005973
Total Sodium (Na)	mg/kg	155	170	142	128	120	<100	100	C005973
Total Strontium (Sr)	mg/kg	71.1	51.3	85.9	121	124	140	0.10	C005973
Total Thallium (Tl)	mg/kg	0.277	0.203	0.330	0.452	0.433	0.440	0.050	C005973
Total Tin (Sn)	mg/kg	0.31	0.23	0.30	0.34	0.31	0.29	0.10	C005973

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY732	DNY733	DNY734	DNY735	DNY736	DNY737		
Sampling Date		2025/06/18	2025/06/18	2025/06/18	2025/06/18	2025/06/18	2025/06/19		
COC Number		08553586	08553586	08553586	08553586	08553586	08553586		
	UNITS	**SW24-7-1**	**SW24-7-2**	**SW24-7-3**	**SW24-7-4**	**SW24-7-5**	**TUL-09/W51-1**	**RDL**	**QC Batch**
Total Titanium (Ti)	mg/kg	334	422	259	158	147	96.6	1.0	C005973
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C005973
Total Uranium (U)	mg/kg	0.973	0.735	1.00	0.983	0.955	0.895	0.050	C005973
Total Vanadium (V)	mg/kg	50.0	52.6	46.2	48.5	47.5	45.8	1.0	C005973
Total Zinc (Zn)	mg/kg	108	99.3	118	148	150	146	1.0	C005973
Total Zirconium (Zr)	mg/kg	1.47	1.15	1.58	1.96	1.70	1.67	0.50	C005973
RDL = Reportable Detection Limit									

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Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY738	DNY739	DNY740	DNY741	DNY742		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19		
COC Number		08553586	08553586	08553586	08553586	08553586		
	UNITS	TUL-09/W51-1-SPLIT	TUL-09/W51-2	TUL-09/W51-3-SPLIT	TUL-09/W51-3	TUL-09/W51-4	RDL	QC Batch
Physical Properties								
Soluble (2:1) pH	pH	8.24	8.31	8.25	8.18	8.17	N/A	C005990
Total Metals by ICPMS								
Total Aluminum (Al)	mg/kg	10500	11200	10600	10500	10700	100	C005973
Total Antimony (Sb)	mg/kg	2.96	5.96	2.97	3.17	3.54	0.10	C005973
Total Arsenic (As)	mg/kg	44.4	82.9	47.5	48.2	56.8	0.20	C005973
Total Barium (Ba)	mg/kg	117	170	117	120	124	0.20	C005973
Total Beryllium (Be)	mg/kg	0.46	0.52	0.44	0.54	0.50	0.20	C005973
Total Bismuth (Bi)	mg/kg	0.12	0.18	0.14	0.14	0.15	0.10	C005973
Total Boron (B)	mg/kg	6.0	6.1	5.5	5.7	5.4	1.0	C005973
Total Cadmium (Cd)	mg/kg	1.02	1.11	1.04	0.946	1.06	0.050	C005973
Total Calcium (Ca)	mg/kg	24600	26600	25900	25500	24300	100	C005973
Total Chromium (Cr)	mg/kg	37.7	43.4	38.6	40.4	38.5	0.50	C005973
Total Cobalt (Co)	mg/kg	12.1	14.7	12.1	12.4	13.3	0.10	C005973
Total Copper (Cu)	mg/kg	46.1	53.1	41.1	44.0	44.9	0.50	C005973
Total Iron (Fe)	mg/kg	29800	34900	30400	31700	31200	100	C005973
Total Lead (Pb)	mg/kg	8.29	12.0	8.23	9.04	9.63	0.10	C005973
Total Lithium (Li)	mg/kg	18.1	18.7	18.2	18.2	18.0	0.50	C005973
Total Magnesium (Mg)	mg/kg	11500	13100	11800	11400	12100	100	C005973
Total Manganese (Mn)	mg/kg	549	627	536	552	567	0.20	C005973
Total Mercury (Hg)	mg/kg	0.130	0.217	0.102	0.090	0.109	0.050	C005973
Total Molybdenum (Mo)	mg/kg	6.10	6.00	5.77	5.83	6.39	0.10	C005973
Total Nickel (Ni)	mg/kg	73.6	79.1	74.1	74.2	79.2	0.50	C005973
Total Phosphorus (P)	mg/kg	732	923	722	741	816	10	C005973
Total Potassium (K)	mg/kg	1060	1210	1040	1040	1060	100	C005973
Total Selenium (Se)	mg/kg	1.65	1.81	1.64	1.75	1.96	0.50	C005973
Total Silver (Ag)	mg/kg	0.142	0.182	0.151	0.154	0.157	0.050	C005973
Total Sodium (Na)	mg/kg	<100	134	<100	<100	<100	100	C005973
Total Strontium (Sr)	mg/kg	133	144	139	139	131	0.10	C005973
Total Thallium (Tl)	mg/kg	0.391	0.442	0.377	0.401	0.439	0.050	C005973
Total Tin (Sn)	mg/kg	0.25	0.29	0.24	0.23	0.26	0.10	C005973
Total Titanium (Ti)	mg/kg	103	123	85.0	96.2	81.2	1.0	C005973

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY738	DNY739	DNY740	DNY741	DNY742		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19		
COC Number		08553586	08553586	08553586	08553586	08553586		
	UNITS	TUL-09/W51-1-SPLIT	TUL-09/W51-2	TUL-09/W51-3-SPLIT	TUL-09/W51-3	TUL-09/W51-4	RDL	QC Batch
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C005973
Total Uranium (U)	mg/kg	0.756	0.955	0.731	0.704	0.922	0.050	C005973
Total Vanadium (V)	mg/kg	43.7	48.8	44.1	45.2	43.5	1.0	C005973
Total Zinc (Zn)	mg/kg	131	145	139	135	138	1.0	C005973
Total Zirconium (Zr)	mg/kg	1.51	1.79	1.66	1.49	1.55	0.50	C005973

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY743	DNY744	DNY745	DNY746		DNY747	DNY748		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19		2025/06/19	2025/06/19		
COC Number		08553586	08553590	08553590	08553590		08553590	08553590		
	UNITS	TUL-09/W51-5	SW24-11-1	SW24-11-2	SW24-11-3	QC Batch	SW24-11-4	SW24-11-5	RDL	QC Batch
Physical Properties										
Soluble (2:1) pH	pH	8.20	8.41	8.37	8.35	C005990	8.29	8.33	N/A	C006044
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	11200	11000	11200	11300	C005973	12800	13500	100	C006040
Total Antimony (Sb)	mg/kg	5.17	2.65	3.52	2.73	C005973	2.84	3.63	0.10	C006040
Total Arsenic (As)	mg/kg	79.2	45.9	44.2	48.9	C005973	42.1	55.0	0.20	C006040
Total Barium (Ba)	mg/kg	163	96.5	115	113	C005973	125	137	0.20	C006040
Total Beryllium (Be)	mg/kg	0.53	0.42	0.47	0.39	C005973	0.49	0.48	0.20	C006040
Total Bismuth (Bi)	mg/kg	0.19	0.21	0.15	0.17	C005973	0.18	0.22	0.10	C006040
Total Boron (B)	mg/kg	6.2	4.1	4.5	4.3	C005973	6.2	5.9	1.0	C006040
Total Cadmium (Cd)	mg/kg	1.25	0.728	0.885	0.870	C005973	0.955	1.14	0.050	C006040
Total Calcium (Ca)	mg/kg	25800	25400	27100	26700	C005973	28200	31300	100	C006040
Total Chromium (Cr)	mg/kg	41.6	43.8	47.5	52.0	C005973	48.4	57.0	0.50	C006040
Total Cobalt (Co)	mg/kg	15.5	12.6	12.6	13.5	C005973	13.6	15.5	0.10	C006040
Total Copper (Cu)	mg/kg	52.8	39.2	41.9	60.7	C005973	44.4	63.0	0.50	C006040
Total Iron (Fe)	mg/kg	35400	40900	41500	47300	C005973	37800	49100	100	C006040
Total Lead (Pb)	mg/kg	13.0	11.4	8.51	9.97	C005973	9.54	12.5	0.10	C006040
Total Lithium (Li)	mg/kg	19.7	16.6	17.5	17.1	C005973	19.8	21.0	0.50	C006040
Total Magnesium (Mg)	mg/kg	12800	12100	12600	12600	C005973	13500	13900	100	C006040
Total Manganese (Mn)	mg/kg	627	566	587	623	C005973	616	697	0.20	C006040
Total Mercury (Hg)	mg/kg	0.160	0.078	0.070	<0.050	C005973	0.211	0.213	0.050	C006040
Total Molybdenum (Mo)	mg/kg	6.80	4.79	4.83	5.51	C005973	7.98	7.07	0.10	C006040
Total Nickel (Ni)	mg/kg	86.8	61.6	67.9	68.0	C005973	78.0	87.6	0.50	C006040
Total Phosphorus (P)	mg/kg	937	876	910	850	C005973	849	934	10	C006040
Total Potassium (K)	mg/kg	1190	892	925	976	C005973	1070	1220	100	C006040
Total Selenium (Se)	mg/kg	2.27	1.43	1.59	1.46	C005973	1.68	1.95	0.50	C006040
Total Silver (Ag)	mg/kg	0.202	0.178	0.368	0.167	C005973	0.229	0.257	0.050	C006040
Total Sodium (Na)	mg/kg	106	104	109	109	C005973	125	132	100	C006040
Total Strontium (Sr)	mg/kg	143	144	147	146	C005973	142	164	0.10	C006040
Total Thallium (Tl)	mg/kg	0.501	0.287	0.301	0.295	C005973	0.394	0.446	0.050	C006040
Total Tin (Sn)	mg/kg	0.24	0.26	0.29	0.31	C005973	0.30	0.39	0.10	C006040
Total Titanium (Ti)	mg/kg	98.5	196	192	272	C005973	176	236	1.0	C006040

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY743	DNY744	DNY745	DNY746		DNY747	DNY748		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19		2025/06/19	2025/06/19		
COC Number		08553586	08553590	08553590	08553590		08553590	08553590		
	UNITS	TUL-09/W51-5	SW24-11-1	SW24-11-2	SW24-11-3	QC Batch	SW24-11-4	SW24-11-5	RDL	QC Batch
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	C005973	<0.50	<0.50	0.50	C006040
Total Uranium (U)	mg/kg	1.22	0.762	0.927	2.50	C005973	0.932	1.14	0.050	C006040
Total Vanadium (V)	mg/kg	47.9	75.0	70.4	92.3	C005973	60.8	79.7	1.0	C006040
Total Zinc (Zn)	mg/kg	159	112	121	123	C005973	132	161	1.0	C006040
Total Zirconium (Zr)	mg/kg	1.74	1.34	1.52	1.68	C005973	1.72	2.03	0.50	C006040

RDL = Reportable Detection Limit

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY749	DNY750	DNY751	DNY752	DNY753	DNY754	DNY756		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/20	2025/06/20		
COC Number		08553590	08553590	08553590	08553590	08553590	08553590	08553590		
	UNITS	**SW16-8-1**	**SW16-8-2**	**SW16-8-3**	**SW16-8-4**	**SW16-8-5**	**W11-1**	**W11-1 SPLIT**	**RDL**	**QC Batch**
Physical Properties										
Soluble (2:1) pH	pH	8.22	8.26	7.58	8.49	7.96	6.92	6.89	N/A	C006044
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	10800	10100	10800	8980	9510	13200	12300	100	C006040
Total Antimony (Sb)	mg/kg	2.40	2.19	2.84	2.06	2.09	1.45	1.44	0.10	C006040
Total Arsenic (As)	mg/kg	28.8	24.9	31.0	24.8	25.2	24.5	21.4	0.20	C006040
Total Barium (Ba)	mg/kg	145	132	169	134	138	80.1	75.3	0.20	C006040
Total Beryllium (Be)	mg/kg	0.36	0.34	0.31	0.31	0.28	0.41	0.31	0.20	C006040
Total Bismuth (Bi)	mg/kg	0.27	0.13	0.21	0.26	0.13	0.13	0.11	0.10	C006040
Total Boron (B)	mg/kg	3.3	2.8	2.8	2.4	2.1	3.1	2.3	1.0	C006040
Total Cadmium (Cd)	mg/kg	1.92	1.33	1.85	0.926	2.08	2.95	2.92	0.050	C006040
Total Calcium (Ca)	mg/kg	11100	8150	4840	13500	5180	10600	10900	100	C006040
Total Chromium (Cr)	mg/kg	40.3	35.1	38.2	32.0	33.3	30.9	29.2	0.50	C006040
Total Cobalt (Co)	mg/kg	11.5	10.3	11.5	9.91	9.98	8.99	8.47	0.10	C006040
Total Copper (Cu)	mg/kg	111	83.5	107	53.1	95.1	1220	1190	0.50	C006040
Total Iron (Fe)	mg/kg	33400	30700	32500	28400	30200	27300	24700	100	C006040
Total Lead (Pb)	mg/kg	23.4	15.1	28.8	13.2	18.2	28.6	28.0	0.10	C006040
Total Lithium (Li)	mg/kg	14.6	13.5	13.4	12.5	12.1	15.8	13.3	0.50	C006040
Total Magnesium (Mg)	mg/kg	9410	8660	8680	8120	8070	9710	8850	100	C006040
Total Manganese (Mn)	mg/kg	506	453	376	472	452	425	399	0.20	C006040
Total Mercury (Hg)	mg/kg	0.149	0.106	0.100	0.085	0.075	0.138	0.060	0.050	C006040
Total Molybdenum (Mo)	mg/kg	5.03	4.04	4.93	4.66	4.28	4.18	3.94	0.10	C006040
Total Nickel (Ni)	mg/kg	50.7	45.5	48.3	46.9	41.7	36.6	37.2	0.50	C006040
Total Phosphorus (P)	mg/kg	786	682	1030	640	693	730	683	10	C006040
Total Potassium (K)	mg/kg	1120	1080	1090	1060	1000 (1)	1380	1300	100	C006040
Total Selenium (Se)	mg/kg	1.02	0.89	1.16	1.03	0.85	0.75	0.78	0.50	C006040
Total Silver (Ag)	mg/kg	0.281	0.168	0.240	0.179	0.162	0.169	0.144	0.050	C006040
Total Sodium (Na)	mg/kg	193	177	164	141	157	222	219	100	C006040
Total Strontium (Sr)	mg/kg	57.2	46.8	30.3	67.2	32.9	47.9	55.3	0.10	C006040
Total Thallium (Tl)	mg/kg	0.322	0.284	0.321	0.344	0.248	0.291	0.281	0.050	C006040
Total Tin (Sn)	mg/kg	0.29	0.18	0.20	0.20	0.20	0.21	0.21	0.10	C006040

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY749	DNY750	DNY751	DNY752	DNY753	DNY754	DNY756		
Sampling Date		2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/19	2025/06/20	2025/06/20		
COC Number		08553590	08553590	08553590	08553590	08553590	08553590	08553590		
	UNITS	SW16-8-1	SW16-8-2	SW16-8-3	SW16-8-4	SW16-8-5	W11-1	W11-1 SPLIT	RDL	QC Batch
Total Titanium (Ti)	mg/kg	369	334	293	277	355	402	397	1.0	C006040
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	0.53	<0.50	<0.50	<0.50	0.50	C006040
Total Uranium (U)	mg/kg	2.37	1.28	1.11	0.957	0.891	1.98	1.86	0.050	C006040
Total Vanadium (V)	mg/kg	60.5	56.6	57.2	51.4	58.0	48.9	46.0	1.0	C006040
Total Zinc (Zn)	mg/kg	308	250	300	159	276	598	575	1.0	C006040
Total Zirconium (Zr)	mg/kg	1.65	1.40	1.38	1.38	1.21	1.33	1.33	0.50	C006040
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY757	DNY758	DNY759	DNY760	DNY761	DNY762	DNY763		
Sampling Date		2025/06/20	2025/06/20	2025/06/20	2025/06/20	2025/06/20	2025/06/20	2025/06/20		
COC Number		08553590	08553590	08553590	08553590	08553590	08553590	08553590		
	UNITS	**W11-2**	**W11-3**	**W11-4**	**W11-5**	**CC-01-1**	**CC-01-2**	**CC-01-3**	**RDL**	**QC Batch**
Physical Properties										
Soluble (2:1) pH	pH	7.79	8.31	8.25	6.75	7.65	7.69	7.61	N/A	C006044
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	11000	13200	12200	13000	25300	25800	27400	100	C006040
Total Antimony (Sb)	mg/kg	1.44	3.27	4.14	1.59	5.67	5.48	6.98	0.10	C006040
Total Arsenic (As)	mg/kg	19.2	40.0	34.5	21.7	57.4	62.1	72.3	0.20	C006040
Total Barium (Ba)	mg/kg	106	200	162	81.3	113	133	149	0.20	C006040
Total Beryllium (Be)	mg/kg	0.34	0.42	0.40	0.33	0.31	0.34	0.34	0.20	C006040
Total Bismuth (Bi)	mg/kg	0.12	0.21	0.19	0.12	<0.10	<0.10	<0.10	0.10	C006040
Total Boron (B)	mg/kg	3.0	3.8	3.2	1.6	<1.0	1.3	1.0	1.0	C006040
Total Cadmium (Cd)	mg/kg	3.02	6.26	5.53	2.64	6.01	5.57	6.13	0.050	C006040
Total Calcium (Ca)	mg/kg	13800	15100	14300	10300	6030	6110	6140	100	C006040
Total Chromium (Cr)	mg/kg	32.8	42.2	37.0	35.2	107	110	109	0.50	C006040
Total Cobalt (Co)	mg/kg	9.51	13.6	12.0	8.75	22.3	19.3	21.1	0.10	C006040
Total Copper (Cu)	mg/kg	380	342	475	1240	1020	1050	1230	0.50	C006040
Total Iron (Fe)	mg/kg	25900	34000	31700	26900	49500	46500	49700	100	C006040
Total Lead (Pb)	mg/kg	11.5	36.1	26.8	46.9	117	133	177	0.10	C006040
Total Lithium (Li)	mg/kg	15.1	17.4	15.2	13.6	29.8	29.4	31.6	0.50	C006040
Total Magnesium (Mg)	mg/kg	9260	11200	9980	9170	18700	18900	19700	100	C006040
Total Manganese (Mn)	mg/kg	458	608	542	387	1250	1010	1160	0.20	C006040
Total Mercury (Hg)	mg/kg	0.062	0.097	0.072	<0.050	<0.050	0.081	0.103	0.050	C006040
Total Molybdenum (Mo)	mg/kg	4.18	5.98	4.52	3.36	1.01	1.04	1.26	0.10	C006040
Total Nickel (Ni)	mg/kg	39.6	63.8	53.6	38.4	62.6	63.3	62.2	0.50	C006040
Total Phosphorus (P)	mg/kg	735	801	744	693	839	853	830	10	C006040
Total Potassium (K)	mg/kg	1320	1650	1550	1370	1110	1110	1120	100	C006040
Total Selenium (Se)	mg/kg	0.87	1.39	1.05	0.64	<0.50	<0.50	<0.50	0.50	C006040
Total Silver (Ag)	mg/kg	0.115	0.311	0.346	0.426	0.386	0.395	0.790	0.050	C006040
Total Sodium (Na)	mg/kg	176	220	189	198	380	448	444	100	C006040
Total Strontium (Sr)	mg/kg	75.1	77.2	72.8	48.6	28.4	29.8	30.4	0.10	C006040
Total Thallium (Tl)	mg/kg	0.271	0.435	0.355	0.287	0.092	0.081	0.093	0.050	C006040
Total Tin (Sn)	mg/kg	0.18	0.31	0.25	0.20	5.68	6.44	4.91	0.10	C006040
Total Titanium (Ti)	mg/kg	351	406	436	423	417	436	508	1.0	C006040

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY757	DNY758	DNY759	DNY760	DNY761	DNY762	DNY763		
Sampling Date		2025/06/20	2025/06/20	2025/06/20	2025/06/20	2025/06/20	2025/06/20	2025/06/20		
COC Number		08553590	08553590	08553590	08553590	08553590	08553590	08553590		
	UNITS	**W11-2**	**W11-3**	**W11-4**	**W11-5**	**CC-01-1**	**CC-01-2**	**CC-01-3**	**RDL**	**QC Batch**
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006040
Total Uranium (U)	mg/kg	1.24	1.56	1.77	2.23	0.631	0.699	1.21	0.050	C006040
Total Vanadium (V)	mg/kg	48.0	60.2	57.6	50.4	80.3	77.4	82.3	1.0	C006040
Total Zinc (Zn)	mg/kg	545	1300	1290	565	2240	2220	2470	1.0	C006040
Total Zirconium (Zr)	mg/kg	1.33	1.91	1.74	1.28	1.12	1.01	1.11	0.50	C006040
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY764	DNY765		DNY766	DNY767	DNY768	DNY769		
Sampling Date		2025/06/20	2025/06/20		2025/06/21	2025/06/21	2025/06/21	2025/06/21		
COC Number		08553590	08553590		08553590	08553590	08553590	08553590		
	UNITS	CC-01-4	CC-01-5	QC Batch	TUL-06-1	TUL-06-2	TUL-06-3	TUL-06-4	RDL	QC Batch
Physical Properties										
Soluble (2:1) pH	pH	7.76	7.60	C006044	7.44	7.83	7.49	7.51	N/A	C006062
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	25600	24200	C006040	7450	6790	7930	9370	100	C006056
Total Antimony (Sb)	mg/kg	6.27	6.39	C006040	0.25	0.24	0.24	0.32	0.10	C006056
Total Arsenic (As)	mg/kg	68.1	75.2	C006040	4.52	5.17	4.70	9.23	0.20	C006056
Total Barium (Ba)	mg/kg	162	116	C006040	146	142	144	183	0.20	C006056
Total Beryllium (Be)	mg/kg	0.29	0.32	C006040	<0.20	<0.20	<0.20	<0.20	0.20	C006056
Total Bismuth (Bi)	mg/kg	<0.10	<0.10	C006040	0.12	0.11	0.13	0.16	0.10	C006056
Total Boron (B)	mg/kg	1.0	<1.0	C006040	2.2	1.3	1.1	<1.0	1.0	C006056
Total Cadmium (Cd)	mg/kg	5.62	5.89	C006040	0.243	0.225	0.199	0.299	0.050	C006056
Total Calcium (Ca)	mg/kg	5530	5940	C006040	3010	3300	2940	3700	100	C006056
Total Chromium (Cr)	mg/kg	102	97.4	C006040	27.7	30.1	33.5	37.5	0.50	C006056
Total Cobalt (Co)	mg/kg	19.0	18.3	C006040	9.97	11.7	10.5	13.7	0.10	C006056
Total Copper (Cu)	mg/kg	1050	1180	C006040	40.0	51.5	44.1	63.1	0.50	C006056
Total Iron (Fe)	mg/kg	46800	44000	C006040	19200	19300	20400	26500	100	C006056
Total Lead (Pb)	mg/kg	143	165	C006040	4.28	3.57	4.21	5.43	0.10	C006056
Total Lithium (Li)	mg/kg	29.5	27.5	C006040	6.56	6.35	6.94	8.39	0.50	C006056
Total Magnesium (Mg)	mg/kg	19000	17400	C006040	6110	6210	6610	8000	100	C006056
Total Manganese (Mn)	mg/kg	957	1050	C006040	353	332	363	451	0.20	C006056
Total Mercury (Hg)	mg/kg	0.067	0.069	C006040	0.110	0.066	<0.050	<0.050	0.050	C006056
Total Molybdenum (Mo)	mg/kg	1.01	1.05	C006040	2.11	2.51	2.43	3.17	0.10	C006056
Total Nickel (Ni)	mg/kg	58.9	54.7	C006040	30.9	39.2	35.0	44.6	0.50	C006056
Total Phosphorus (P)	mg/kg	753	827	C006040	515	641	576	797	10	C006056
Total Potassium (K)	mg/kg	1050	965	C006040	1250	1080	1230	1360	100	C006056
Total Selenium (Se)	mg/kg	<0.50	0.54	C006040	0.50	0.69	0.51	0.68	0.50	C006056
Total Silver (Ag)	mg/kg	0.473	0.409	C006040	0.093	0.102	0.107	0.135	0.050	C006056
Total Sodium (Na)	mg/kg	397	364	C006040	127	<100	114	128	100	C006056
Total Strontium (Sr)	mg/kg	29.7	28.5	C006040	13.6	13.1	13.1	15.6	0.10	C006056
Total Thallium (Tl)	mg/kg	0.078	0.080	C006040	0.103	0.086	0.096	0.111	0.050	C006056
Total Tin (Sn)	mg/kg	5.12	8.91	C006040	0.33	0.20	0.21	0.26	0.10	C006056
Total Titanium (Ti)	mg/kg	465	390	C006040	493	416	467	541	1.0	C006056

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY764	DNY765		DNY766	DNY767	DNY768	DNY769		
Sampling Date		2025/06/20	2025/06/20		2025/06/21	2025/06/21	2025/06/21	2025/06/21		
COC Number		08553590	08553590		08553590	08553590	08553590	08553590		
	UNITS	**CC-01-4**	**CC-01-5**	**QC Batch**	**TUL-06-1**	**TUL-06-2**	**TUL-06-3**	**TUL-06-4**	**RDL**	**QC Batch**
Total Tungsten (W)	mg/kg	<0.50	<0.50	C006040	0.89	<0.50	<0.50	<0.50	0.50	C006056
Total Uranium (U)	mg/kg	0.648	0.726	C006040	0.950	0.892	1.58	1.22	0.050	C006056
Total Vanadium (V)	mg/kg	76.2	70.9	C006040	37.4	34.1	40.8	55.3	1.0	C006056
Total Zinc (Zn)	mg/kg	2220	2170	C006040	50.3	47.7	51.1	63.9	1.0	C006056
Total Zirconium (Zr)	mg/kg	0.95	0.77	C006040	0.50	<0.50	<0.50	<0.50	0.50	C006056
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY770	DNY771	DNY772	DNY773	DNY774	DNY775	DNY776		
Sampling Date		2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21		
COC Number		08553590	08553590	08553590	08553594	08553594	08553594	08553594		
	UNITS	**TUL-06-5**	**TUL-06-5 SPLIT**	**TUL-00-1**	**TUL-00-2**	**TUL-00-3**	**TUL-00-4**	**TUL-00-5**	**RDL**	**QC Batch**
Physical Properties										
Soluble (2:1) pH	pH	7.67	7.65	7.40	7.38	7.21	7.10	6.77	N/A	C006062
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	9850	9700	11300	10400	8170	7210	7300	100	C006056
Total Antimony (Sb)	mg/kg	0.29	0.22	0.23	0.29	0.21	0.24	0.16	0.10	C006056
Total Arsenic (As)	mg/kg	8.06	5.18	4.85	7.26	4.58	4.22	3.28	0.20	C006056
Total Barium (Ba)	mg/kg	177	190	98.6	109	71.1	69.9	62.3	0.20	C006056
Total Beryllium (Be)	mg/kg	<0.20	<0.20	0.22	<0.20	<0.20	<0.20	<0.20	0.20	C006056
Total Bismuth (Bi)	mg/kg	0.13	0.14	<0.10	0.40	0.12	1.23 (1)	<0.10	0.10	C006056
Total Boron (B)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	1.0	C006056
Total Cadmium (Cd)	mg/kg	0.243	0.259	0.136	0.147	0.132	0.118	0.114	0.050	C006056
Total Calcium (Ca)	mg/kg	3540	3260	4120	3230	2880	2630	2630	100	C006056
Total Chromium (Cr)	mg/kg	34.8	36.5	24.6	21.8	15.8	15.5	16.3	0.50	C006056
Total Cobalt (Co)	mg/kg	11.8	11.9	8.71	7.67	6.48	5.81	5.59	0.10	C006056
Total Copper (Cu)	mg/kg	51.4	52.0	22.2	20.5	21.3	17.0	19.0	0.50	C006056
Total Iron (Fe)	mg/kg	23700	22900	21300	21600	17300	14900	15400	100	C006056
Total Lead (Pb)	mg/kg	5.32	6.37	4.40	5.94	4.09	4.32	3.34	0.10	C006056
Total Lithium (Li)	mg/kg	9.24	8.70	11.2	10.7	8.87	7.24	8.82	0.50	C006056
Total Magnesium (Mg)	mg/kg	8150	8190	9060	8040	5910	5410	5270	100	C006056
Total Manganese (Mn)	mg/kg	455	463	378	383	343	280	286	0.20	C006056
Total Mercury (Hg)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.070	0.050	C006056
Total Molybdenum (Mo)	mg/kg	2.79	2.85	1.15	1.29	0.95	0.94	1.25	0.10	C006056
Total Nickel (Ni)	mg/kg	37.0	39.5	20.7	16.4	14.7	13.4	13.0	0.50	C006056
Total Phosphorus (P)	mg/kg	634	629	597	662	435	307 (1)	453	10	C006056
Total Potassium (K)	mg/kg	1530	1500	1780	2000	1400	1270 (2)	1320	100	C006056
Total Selenium (Se)	mg/kg	<0.50	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006056
Total Silver (Ag)	mg/kg	0.129	0.120	0.085	0.112	0.070	0.061	0.059	0.050	C006056
Total Sodium (Na)	mg/kg	153	145	277	181	217	185	169	100	C006056
Total Strontium (Sr)	mg/kg	16.7	14.9	20.7	16.9	16.6	15.3	15.0	0.10	C006056
Total Thallium (Tl)	mg/kg	0.106	0.122	0.112	0.130	0.099	0.077	0.085	0.050	C006056

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.
(2) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY770	DNY771	DNY772	DNY773	DNY774	DNY775	DNY776		
Sampling Date		2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21	2025/06/21		
COC Number		08553590	08553590	08553590	08553594	08553594	08553594	08553594		
	UNITS	TUL-06-5	TUL-06-5 SPLIT	TUL-00-1	TUL-00-2	TUL-00-3	TUL-00-4	TUL-00-5	RDL	QC Batch
Total Tin (Sn)	mg/kg	0.26	0.28	0.22	0.28	0.19	0.21	0.20	0.10	C006056
Total Titanium (Ti)	mg/kg	598	630	599	590	445	452	427	1.0	C006056
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006056
Total Uranium (U)	mg/kg	1.09	1.05	1.04	1.28	0.853	1.44 (1)	0.823	0.050	C006056
Total Vanadium (V)	mg/kg	46.1	45.0	46.6	46.3	33.9	31.2	32.8	1.0	C006056
Total Zinc (Zn)	mg/kg	63.4	61.5	49.1	51.1	41.9	37.4	36.3	1.0	C006056
Total Zirconium (Zr)	mg/kg	0.56	0.57	0.79	0.83	0.60	0.76	0.65	0.50	C006056

RDL = Reportable Detection Limit
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY777	DNY778	DNY779	DNY780	DNY781	DNY782		
Sampling Date		2025/06/22	2025/06/22	2025/06/22	2025/06/22	2025/06/22	2025/06/22		
COC Number		08553594	08553594	08553594	08553594	08553594	08553594		
	UNITS	SW16-1-1	SW16-1-2	SW16-1-3	SW16-1-4	SW16-1-5	SW16-1-5 SPLIT	RDL	QC Batch
Physical Properties									
Soluble (2:1) pH	pH	8.45	8.47	8.22	8.45	8.46	8.39	N/A	C006062
Total Metals by ICPMS									
Total Aluminum (Al)	mg/kg	8220	7040	12400	8360	10700	11200	100	C006056
Total Antimony (Sb)	mg/kg	1.96	1.34	4.69	1.50	2.31	2.45	0.10	C006056
Total Arsenic (As)	mg/kg	35.5	20.4	66.2	26.2	43.0	45.5	0.20	C006056
Total Barium (Ba)	mg/kg	155	106	194	133	165	194	0.20	C006056
Total Beryllium (Be)	mg/kg	0.29	0.22	0.55	0.24	0.35	0.40	0.20	C006056
Total Bismuth (Bi)	mg/kg	0.14	0.11	0.20	0.16	0.16	0.15	0.10	C006056
Total Boron (B)	mg/kg	3.7	2.1	6.1	2.0	3.2	3.6	1.0	C006056
Total Cadmium (Cd)	mg/kg	0.633	0.347	1.29	0.471	0.615	0.596	0.050	C006056
Total Calcium (Ca)	mg/kg	13100	7560	24000	8830	13200	14000	100	C006056
Total Chromium (Cr)	mg/kg	37.2	26.8	45.8	32.0	38.5	39.3	0.50	C006056
Total Cobalt (Co)	mg/kg	11.5	7.99	17.7	10.1	12.6	13.0	0.10	C006056
Total Copper (Cu)	mg/kg	31.4	22.1	55.8	29.2	43.0	41.1	0.50	C006056
Total Iron (Fe)	mg/kg	40800	30600	42000	39900	38800	39600	100	C006056
Total Lead (Pb)	mg/kg	9.07	6.54	13.7	8.16	9.01	9.73	0.10	C006056
Total Lithium (Li)	mg/kg	11.0	8.67	19.0	9.83	14.0	14.6	0.50	C006056
Total Magnesium (Mg)	mg/kg	7610	5840	12500	6990	9710	10400	100	C006056
Total Manganese (Mn)	mg/kg	418	329	713	410	484	495	0.20	C006056
Total Mercury (Hg)	mg/kg	0.097	0.052	0.146	0.080	0.112	0.097	0.050	C006056
Total Molybdenum (Mo)	mg/kg	3.85	2.31	7.40	3.21	3.61	3.80	0.10	C006056
Total Nickel (Ni)	mg/kg	47.3	29.7	94.1	36.4	50.8	54.2	0.50	C006056
Total Phosphorus (P)	mg/kg	840	637	1020	814	956	963	10	C006056
Total Potassium (K)	mg/kg	1130	1160	1460	1330	1440	1480	100	C006056
Total Selenium (Se)	mg/kg	0.93	0.55	2.11	0.66	1.05	1.14	0.50	C006056
Total Silver (Ag)	mg/kg	0.114	0.107	0.249	0.127	0.139	0.144	0.050	C006056
Total Sodium (Na)	mg/kg	135	162	161	182	247	218	100	C006056
Total Strontium (Sr)	mg/kg	70.5	43.4	128	48.2	73.9	77.7	0.10	C006056
Total Thallium (Tl)	mg/kg	0.244	0.175	0.509	0.209	0.239	0.261	0.050	C006056
Total Tin (Sn)	mg/kg	0.29	0.23	0.36	0.29	0.33	0.32	0.10	C006056
Total Titanium (Ti)	mg/kg	341	399	229	472	498	511	1.0	C006056

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DNY777	DNY778	DNY779	DNY780	DNY781	DNY782		
Sampling Date		2025/06/22	2025/06/22	2025/06/22	2025/06/22	2025/06/22	2025/06/22		
COC Number		08553594	08553594	08553594	08553594	08553594	08553594		
	UNITS	**SW16-1-1**	**SW16-1-2**	**SW16-1-3**	**SW16-1-4**	**SW16-1-5**	**SW16-1-5 SPLIT**	**RDL**	**QC Batch**
Total Tungsten (W)	mg/kg	0.65	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C006056
Total Uranium (U)	mg/kg	2.89	1.19	1.35	1.01	1.52	2.18	0.050	C006056
Total Vanadium (V)	mg/kg	93.2	72.8	60.6	97.8	72.9	75.6	1.0	C006056
Total Zinc (Zn)	mg/kg	89.1	61.4	163	75.3	102	98.3	1.0	C006056
Total Zirconium (Zr)	mg/kg	1.32	1.00	2.08	1.14	1.61	1.64	0.50	C006056
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

GENERAL COMMENTS

Revised Report: Report reissued to reflect the amended sample IDs as per client request received on 2025/08/01.
TUL/W51-09-3 to TUL-09/W51-3
TUL/W51-09-4 to TUL-09/W51-4
TUL/W51-09-5 to TUL-09/W51-5

Results relate only to the items tested.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C005973	Total Aluminum (Al)	2025/07/01	NC	75 - 125	95	80 - 120	<100	mg/kg	2.7	40	92	70 - 130
C005973	Total Antimony (Sb)	2025/07/01	97	75 - 125	104	80 - 120	<0.10	mg/kg	2.0	30	109	70 - 130
C005973	Total Arsenic (As)	2025/07/01	101	75 - 125	103	80 - 120	<0.20	mg/kg	2.7	30	95	70 - 130
C005973	Total Barium (Ba)	2025/07/01	128 (1)	75 - 125	102	80 - 120	<0.20	mg/kg	1.1	40	102	70 - 130
C005973	Total Beryllium (Be)	2025/07/01	86	75 - 125	96	80 - 120	<0.20	mg/kg	22	30	111	70 - 130
C005973	Total Bismuth (Bi)	2025/07/01	98	75 - 125	97	80 - 120	<0.10	mg/kg	4.5	30		
C005973	Total Boron (B)	2025/07/01	91	75 - 125	99	80 - 120	<1.0	mg/kg	12	30		
C005973	Total Cadmium (Cd)	2025/07/01	99	75 - 125	101	80 - 120	<0.050	mg/kg	15	30	108	70 - 130
C005973	Total Calcium (Ca)	2025/07/01	NC	75 - 125	104	80 - 120	<100	mg/kg	5.1	30	92	70 - 130
C005973	Total Chromium (Cr)	2025/07/01	93	75 - 125	100	80 - 120	<0.50	mg/kg	2.6	30	100	70 - 130
C005973	Total Cobalt (Co)	2025/07/01	94	75 - 125	101	80 - 120	<0.10	mg/kg	1.3	30	99	70 - 130
C005973	Total Copper (Cu)	2025/07/01	94	75 - 125	101	80 - 120	<0.50	mg/kg	0.17	30	97	70 - 130
C005973	Total Iron (Fe)	2025/07/01	NC	75 - 125	103	80 - 120	<100	mg/kg	2.7	30	96	70 - 130
C005973	Total Lead (Pb)	2025/07/01	100	75 - 125	104	80 - 120	<0.10	mg/kg	3.3	40	109	70 - 130
C005973	Total Lithium (Li)	2025/07/01	87	75 - 125	99	80 - 120	<0.50	mg/kg	1.5	30	106	70 - 130
C005973	Total Magnesium (Mg)	2025/07/01	NC	75 - 125	100	80 - 120	<100	mg/kg	2.3	30	96	70 - 130
C005973	Total Manganese (Mn)	2025/07/01	NC	75 - 125	102	80 - 120	<0.20	mg/kg	1.9	30	97	70 - 130
C005973	Total Mercury (Hg)	2025/07/01	96	75 - 125	100	75 - 125	<0.050	mg/kg	11	40	78	70 - 130
C005973	Total Molybdenum (Mo)	2025/07/01	96	75 - 125	102	80 - 120	<0.10	mg/kg	2.0	40	101	70 - 130
C005973	Total Nickel (Ni)	2025/07/01	93	75 - 125	100	80 - 120	<0.50	mg/kg	1.6	30	96	70 - 130
C005973	Total Phosphorus (P)	2025/07/01	100	75 - 125	99	80 - 120	<10	mg/kg	12	30	93	70 - 130
C005973	Total Potassium (K)	2025/07/01	150 (1)	75 - 125	103	80 - 120	<100	mg/kg	1.1	40	94	70 - 130
C005973	Total Selenium (Se)	2025/07/01	100	75 - 125	103	80 - 120	<0.50	mg/kg	19	30		
C005973	Total Silver (Ag)	2025/07/01	93	75 - 125	96	80 - 120	<0.050	mg/kg	4.9	40	113	70 - 130
C005973	Total Sodium (Na)	2025/07/01	96	75 - 125	100	80 - 120	<100	mg/kg	1.9	40	94	70 - 130
C005973	Total Strontium (Sr)	2025/07/01	105	75 - 125	105	80 - 120	<0.10	mg/kg	0.69	40	106	70 - 130
C005973	Total Thallium (Tl)	2025/07/01	94	75 - 125	100	80 - 120	<0.050	mg/kg	10	30	107	70 - 130
C005973	Total Tin (Sn)	2025/07/01	97	75 - 125	98	80 - 120	<0.10	mg/kg	5.5	40	100	70 - 130
C005973	Total Titanium (Ti)	2025/07/01	NC	75 - 125	100	80 - 120	<1.0	mg/kg	2.5	40		
C005973	Total Tungsten (W)	2025/07/01	88	75 - 125	104	80 - 120	<0.50	mg/kg	NC	40		
C005973	Total Uranium (U)	2025/07/01	95	75 - 125	98	80 - 120	<0.050	mg/kg	0.98	30	104	70 - 130

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C005973	Total Vanadium (V)	2025/07/01	99	75 - 125	100	80 - 120	<1.0	mg/kg	1.9	30	96	70 - 130
C005973	Total Zinc (Zn)	2025/07/01	95	75 - 125	102	80 - 120	<1.0	mg/kg	1.7	30	101	70 - 130
C005973	Total Zirconium (Zr)	2025/07/01	102	75 - 125	99	80 - 120	<0.50	mg/kg	2.7	40		
C005990	Soluble (2:1) pH	2025/06/30			100	97 - 103			0.12	N/A		
C006019	Total Sulphur (S)	2025/07/09			106	80 - 120	<0.06	%	11	30	114	75 - 125
C006040	Total Aluminum (Al)	2025/07/02	NC	75 - 125	92	80 - 120	<100	mg/kg	4.2	40	107	70 - 130
C006040	Total Antimony (Sb)	2025/07/02	98	75 - 125	108	80 - 120	<0.10	mg/kg	10	30	124	70 - 130
C006040	Total Arsenic (As)	2025/07/02	94	75 - 125	96	80 - 120	<0.20	mg/kg	7.9	30	109	70 - 130
C006040	Total Barium (Ba)	2025/07/02	117	75 - 125	101	80 - 120	<0.20	mg/kg	3.2	40	124	70 - 130
C006040	Total Beryllium (Be)	2025/07/02	91	75 - 125	91	80 - 120	<0.20	mg/kg	1.0	30	105	70 - 130
C006040	Total Bismuth (Bi)	2025/07/02	93	75 - 125	99	80 - 120	<0.10	mg/kg	7.5	30		
C006040	Total Boron (B)	2025/07/02	93	75 - 125	87	80 - 120	<1.0	mg/kg	10	30		
C006040	Total Cadmium (Cd)	2025/07/02	95	75 - 125	101	80 - 120	<0.050	mg/kg	4.9	30	146 (2)	70 - 130
C006040	Total Calcium (Ca)	2025/07/02	NC	75 - 125	97	80 - 120	<100	mg/kg	0.027	30	113	70 - 130
C006040	Total Chromium (Cr)	2025/07/02	98	75 - 125	100	80 - 120	<0.50	mg/kg	2.3	30	122	70 - 130
C006040	Total Cobalt (Co)	2025/07/02	98	75 - 125	101	80 - 120	<0.10	mg/kg	0.081	30	123	70 - 130
C006040	Total Copper (Cu)	2025/07/02	90	75 - 125	98	80 - 120	<0.50	mg/kg	5.4	30	120	70 - 130
C006040	Total Iron (Fe)	2025/07/02	NC	75 - 125	103	80 - 120	<100	mg/kg	4.5	30	120	70 - 130
C006040	Total Lead (Pb)	2025/07/02	95	75 - 125	102	80 - 120	<0.10	mg/kg	14	40	128	70 - 130
C006040	Total Lithium (Li)	2025/07/02	97	75 - 125	89	80 - 120	<0.50	mg/kg	3.3	30	110	70 - 130
C006040	Total Magnesium (Mg)	2025/07/02	NC	75 - 125	91	80 - 120	<100	mg/kg	9.7	30	111	70 - 130
C006040	Total Manganese (Mn)	2025/07/02	NC	75 - 125	100	80 - 120	<0.20	mg/kg	5.7	30	118	70 - 130
C006040	Total Mercury (Hg)	2025/07/02	96	75 - 125	104	75 - 125	<0.050	mg/kg	23	40	106	70 - 130
C006040	Total Molybdenum (Mo)	2025/07/02	96	75 - 125	102	80 - 120	<0.10	mg/kg	14	40	124	70 - 130
C006040	Total Nickel (Ni)	2025/07/02	94	75 - 125	99	80 - 120	<0.50	mg/kg	3.1	30	120	70 - 130
C006040	Total Phosphorus (P)	2025/07/02	91	75 - 125	93	80 - 120	<10	mg/kg	2.8	30	109	70 - 130
C006040	Total Potassium (K)	2025/07/02	166 (1)	75 - 125	97	80 - 120	<100	mg/kg	2.3	40	106	70 - 130
C006040	Total Selenium (Se)	2025/07/02	96	75 - 125	94	80 - 120	<0.50	mg/kg	7.2	30		
C006040	Total Silver (Ag)	2025/07/02	93	75 - 125	97	80 - 120	<0.050	mg/kg	3.9	40	144 (2)	70 - 130
C006040	Total Sodium (Na)	2025/07/02	100	75 - 125	89	80 - 120	<100	mg/kg	6.6	40	106	70 - 130
C006040	Total Strontium (Sr)	2025/07/02	97	75 - 125	100	80 - 120	<0.10	mg/kg	12	40	122	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C006040	Total Thallium (Tl)	2025/07/02	95	75 - 125	101	80 - 120	<0.050	mg/kg	2.2	30	129	70 - 130
C006040	Total Tin (Sn)	2025/07/02	99	75 - 125	102	80 - 120	<0.10	mg/kg	12	40	124	70 - 130
C006040	Total Titanium (Ti)	2025/07/02	NC	75 - 125	97	80 - 120	<1.0	mg/kg	7.1	40		
C006040	Total Tungsten (W)	2025/07/02	91	75 - 125	105	80 - 120	<0.50	mg/kg	NC	40		
C006040	Total Uranium (U)	2025/07/02	93	75 - 125	99	80 - 120	<0.050	mg/kg	8.1	30	126	70 - 130
C006040	Total Vanadium (V)	2025/07/02	101	75 - 125	100	80 - 120	<1.0	mg/kg	5.4	30	118	70 - 130
C006040	Total Zinc (Zn)	2025/07/02	NC	75 - 125	103	80 - 120	<1.0	mg/kg	3.6	30	126	70 - 130
C006040	Total Zirconium (Zr)	2025/07/02	103	75 - 125	97	80 - 120	<0.50	mg/kg	1.2	40		
C006044	Soluble (2:1) pH	2025/06/30			100	97 - 103			0.74	N/A		
C006056	Total Aluminum (Al)	2025/07/02	NC	75 - 125	95	80 - 120	<100	mg/kg	5.5	40	75	70 - 130
C006056	Total Antimony (Sb)	2025/07/02	106	75 - 125	108	80 - 120	<0.10	mg/kg	1.0	30	97	70 - 130
C006056	Total Arsenic (As)	2025/07/02	102	75 - 125	97	80 - 120	<0.20	mg/kg	10	30	72	70 - 130
C006056	Total Barium (Ba)	2025/07/02	125	75 - 125	99	80 - 120	<0.20	mg/kg	9.7	40	84	70 - 130
C006056	Total Beryllium (Be)	2025/07/02	97	75 - 125	90	80 - 120	<0.20	mg/kg	NC	30	75	70 - 130
C006056	Total Bismuth (Bi)	2025/07/02	96	75 - 125	98	80 - 120	<0.10	mg/kg	92 (1)	30		
C006056	Total Boron (B)	2025/07/02	96	75 - 125	86	80 - 120	<1.0	mg/kg	NC	30		
C006056	Total Cadmium (Cd)	2025/07/02	104	75 - 125	101	80 - 120	<0.050	mg/kg	3.1	30	92	70 - 130
C006056	Total Calcium (Ca)	2025/07/02	NC	75 - 125	96	80 - 120	<100	mg/kg	6.1	30	79	70 - 130
C006056	Total Chromium (Cr)	2025/07/02	104	75 - 125	101	80 - 120	<0.50	mg/kg	15	30	84	70 - 130
C006056	Total Cobalt (Co)	2025/07/02	107	75 - 125	106	80 - 120	<0.10	mg/kg	8.8	30	85	70 - 130
C006056	Total Copper (Cu)	2025/07/02	104	75 - 125	99	80 - 120	<0.50	mg/kg	23	30	82	70 - 130
C006056	Total Iron (Fe)	2025/07/02	NC	75 - 125	103	80 - 120	<100	mg/kg	11	30	82	70 - 130
C006056	Total Lead (Pb)	2025/07/02	104	75 - 125	100	80 - 120	<0.10	mg/kg	10	40	89	70 - 130
C006056	Total Lithium (Li)	2025/07/02	101	75 - 125	89	80 - 120	<0.50	mg/kg	12	30	73	70 - 130
C006056	Total Magnesium (Mg)	2025/07/02	NC	75 - 125	93	80 - 120	<100	mg/kg	4.7	30	78	70 - 130
C006056	Total Manganese (Mn)	2025/07/02	NC	75 - 125	101	80 - 120	<0.20	mg/kg	13	30	81	70 - 130
C006056	Total Mercury (Hg)	2025/07/02	103	75 - 125	103	75 - 125	<0.050	mg/kg	NC	40	79	70 - 130
C006056	Total Molybdenum (Mo)	2025/07/02	104	75 - 125	102	80 - 120	<0.10	mg/kg	5.2	40	89	70 - 130
C006056	Total Nickel (Ni)	2025/07/02	103	75 - 125	100	80 - 120	<0.50	mg/kg	7.1	30	82	70 - 130
C006056	Total Phosphorus (P)	2025/07/02	105	75 - 125	93	80 - 120	<10	mg/kg	34 (1)	30	79	70 - 130
C006056	Total Potassium (K)	2025/07/02	130 (1)	75 - 125	101	80 - 120	<100	mg/kg	3.6	40	75	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C006056	Total Selenium (Se)	2025/07/02	103	75 - 125	95	80 - 120	<0.50	mg/kg	NC	30		
C006056	Total Silver (Ag)	2025/07/02	101	75 - 125	97	80 - 120	<0.050	mg/kg	NC	40	99	70 - 130
C006056	Total Sodium (Na)	2025/07/02	118	75 - 125	91	80 - 120	<100	mg/kg	6.9	40	74	70 - 130
C006056	Total Strontium (Sr)	2025/07/02	105	75 - 125	101	80 - 120	<0.10	mg/kg	2.7	40	84	70 - 130
C006056	Total Thallium (Tl)	2025/07/02	102	75 - 125	99	80 - 120	<0.050	mg/kg	18	30	91	70 - 130
C006056	Total Tin (Sn)	2025/07/02	109	75 - 125	102	80 - 120	<0.10	mg/kg	14	40	87	70 - 130
C006056	Total Titanium (Ti)	2025/07/02	NC	75 - 125	94	80 - 120	<1.0	mg/kg	3.8	40		
C006056	Total Tungsten (W)	2025/07/02	103	75 - 125	105	80 - 120	<0.50	mg/kg	NC	40		
C006056	Total Uranium (U)	2025/07/02	101	75 - 125	96	80 - 120	<0.050	mg/kg	65 (1)	30	83	70 - 130
C006056	Total Vanadium (V)	2025/07/02	106	75 - 125	103	80 - 120	<1.0	mg/kg	13	30	82	70 - 130
C006056	Total Zinc (Zn)	2025/07/02	103	75 - 125	101	80 - 120	<1.0	mg/kg	7.1	30	84	70 - 130
C006056	Total Zirconium (Zr)	2025/07/02	107	75 - 125	97	80 - 120	<0.50	mg/kg	28	40		
C006062	Soluble (2:1) pH	2025/07/02			100	97 - 103			0.30	N/A		
C006373	% sand by hydrometer	2025/07/03							0.70	35	103	90 - 110
C006373	% silt by hydrometer	2025/07/03							1.6	35		
C006373	Clay Content	2025/07/03							2.4	35		
C007287	% sand by hydrometer	2025/07/03							1.2	35	94	90 - 110
C007287	% silt by hydrometer	2025/07/03							1.7	35		
C007287	Clay Content	2025/07/03							4.2	35		
C009611	% sand by hydrometer	2025/07/07							7.3	35	95	90 - 110
C009611	% silt by hydrometer	2025/07/07							2.2	35		
C009611	Clay Content	2025/07/07							1.4	35		
C009756	Total Sulphur (S)	2025/07/07			99	80 - 120	<0.06	%	NC	30	106	75 - 125
C009797	Total Sulphur (S)	2025/07/08			97	80 - 120	<0.06	%	7.8	30	116	75 - 125
C009906	Total Organic Carbon (C)	2025/07/09			100	80 - 120	<0.050	%	0.24	20	101	75 - 125
C009907	Total Organic Carbon (C)	2025/07/09			99	80 - 120	<0.050	%	3.4	20	109	75 - 125
C009912	Total Organic Carbon (C)	2025/07/09			99	80 - 120	<0.050	%	1.6	20	117	75 - 125
C011644	% sand by hydrometer	2025/07/09							0.80	35	101	90 - 110
C011644	% silt by hydrometer	2025/07/09							1.1	35		
C011644	Clay Content	2025/07/09							4.9	35		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C013325	Total Organic Carbon (C)	2025/07/10			102	80 - 120	<0.050	%	9.6	20	106	75 - 125

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Reference Material exceeds acceptance criteria. Re-analysis yields similar results.

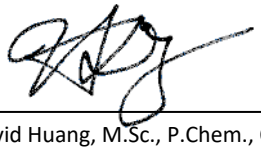
Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C557810
Report Date: 2025/08/01

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR413
Sampler Initials: ER

VALIDATION SIGNATURE PAGE

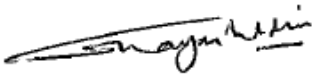
The analytical data and all QC contained in this report were reviewed and validated by:



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Mauro Oselin, P.Chem., QP, Scientific Specialist



Bureau Veritas Certified by Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

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CHAIN OF CUSTODY RECORD

ENV COC - 00015v3

MVAN-2025-06-2030

Invoice Information	Invoice to (requires report) ☐	Report Information (if differs from invoice)		Project Information	
Company :	SLR Consulting Ltd	Company:	SLR Consulting Ltd	Quotation #:	C40429-19
Contact Name:	Irene Tuite	Contact Name:	Irene Tuite	P.O. #/ AFE#:	WHR413
Street Address:		Street Address:		Project #:	234.030071.00002
City: / Prov: / Postal Code:		City: / Prov: / Postal Code:	Whitehorse / YT	Site #:	
Phone:		Phone:		Site Location:	Tuesday Creek
Email:	Irene.tuite@slrconsulting.com	Email:	irene.tuite@slrconsulting.com;	Site Location Province:	BC
Copies:		Copies:	eroy@slrconsulting.com	Sampled By:	ER / BC / DG

2024 Rates

Regulatory Criteria

☑ BC CSR ☑ CCME ☐ Drinking Water
☐ YUKON CSR ☑ BC Water Quality ☐ Other: _____

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Regular Turnaround Time (TAT)
☑ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY / MM / DD

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 CSR/CCME Metals in soil with Hg on <2 mm fraction	5 Total organic carbon LECO method	6 Particle size by sieve (75 um)	7 Texture by Hydrometer	8 Moisture	9 Total sulphur	10 pH	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Comments
1	SW24-7-1	25	06	18	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
2	SW24-7-2	25	06	18	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
3	SW24-7-3	25	06	18	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
4	SW24-7-4	25	06	18	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
5	SW24-7-5	25	06	18	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
6	TUL-09/W51-1	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
7	TUL-09/W51-1-SPLIT	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
8	TUL-09/W51-2	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
9	TUL-09/W51-2-SPLIT	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
10	TUL/W51-09-3	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
11	TUL/W51-09-4	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
12	TUL/W51-09-5	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C				LAB USE ONLY	Yes	No	°C				LAB USE ONLY	Yes	No	°C				Temperature reading by:
Seal present		—					Seal present		—					Seal present		—					
Seal intact		—					Seal intact		—					Seal intact		—					
Cooling media present	—			2	2	2	Cooling media present	—			10	10	9	Cooling media present	—			4	4	4	
				1	2	3					1	2	3					1	2	3	

Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special instructions
1 Eliane Roy	2025	06	25	11	10	1 Maria Zamora	2025	06	26	09	26	
2						2						

ICE frozen

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CHAIN OF CUSTODY RECORD

ENV COC - 00015v3

CONTINUED

[PAGE 1 REFERENCE]

Company:	SLR Consulting Ltd
Contact Name:	Irene Tuite
Project #:	234.030071.00002

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled			Time (24hr)		Matrix	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Same as above
		YY	MM	DD	HH	MM		FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	CSR/CCME Metals in soil with Hg on < 2 mm fraction	Total organic carbon LECO method	Particle size by sieve (75 um)	Texture by Hydrometer	Moisture	Total sulphur	pH											# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE	Comments
13	SW24-11-1	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		**2 glass jars, 1 bag**
14	SW24-11-2	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
15	SW24-11-3	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
16	SW24-11-4	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
17	SW24-11-5	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
18	SW16-8-1	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
19	SW16-8-2	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
20	SW16-8-3	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
21	SW16-8-4	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
22	SW16-8-5	25	06	19	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
23	W11-1	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
24	W11-1 SPLIT	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
25	W11-2	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
26	W11-3	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
27	W11-4	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
28	W11-5	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
29	CC-01-1	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
30	CC-01-2	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
31	CC-01-3	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
32	CC-01-4	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
33	CC-01-5	25	06	20	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
34	TUL-06-1	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
35	TUL-06-2	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
36	TUL-06-3	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
37	TUL-06-4	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
38	TUL-06-5	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
39	TUL-06-5 SPLIT	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
40	TUL-00-1	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag

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CHAIN OF CUSTODY RECORD
ENV COC - 00015v3

Invoice Information	Invoice to (requires report) ☐	Report Information (if differs from invoice)		Project Information	
Company:	SLR Consulting Ltd	Company:	SLR Consulting Ltd	Quotation #:	C40429-19
Contact Name:	Irene Tuite	Contact Name:	Irene Tuite	P.O. #/ AFE#:	WHR413
Street Address:		Street Address:		Project #:	234.030071.00002
City: / Prov: / Postal Code:		City: Whitehorse / Prov: YT / Postal Code:		Site #:	
Phone:		Phone:		Site Location:	Tulsequah Chief
Email:	Irene.tuite@slrconsulting.com	Email:	irene.tuite@slrconsulting.com;	Site Location Province:	BC
Copies:		Copies:	eroy@slrconsulting.com	Sampled By:	ER / BC / DG

LAB USE ONLY - PLACE STICKER HERE

Rush Confirmation #:

Regulatory Criteria

☑ BC CSR ☑ CCME ☐ Drinking Water
☐ YUKON CSR ☑ BC Water Quality ☐ Other: _____

Regular Turnaround Time (TAT)
☑ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY / MM / DD

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 CSR/CCME Metals in soil with Hg on ≤ 2 mm fraction	5 Total organic carbon LECO method	6 Particle size by sieve (75 um)	7 Texture by Hydrometer	8 Moisture	9 Total sulphur	10 pH	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Comments
1	TUL-00-2	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
2	TUL-00-3	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
3	TUL-00-4	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
4	TUL-00-5	25	06	21	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
5	SW16-1-1	25	06	22	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
6	SW16-1-2	25	06	22	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
7	SW16-1-3	25	06	22	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
8	SW16-1-4	25	06	22	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
9	SW16-1-5	25	06	22	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
10	SW16-1-5 SPLIT	25	06	22	-	-	Sediment	N	N	N	R	R	R	R	R	R	R											3		2 glass jars, 1 bag
11																														
12																														

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C				Temperature reading by:
Seal present		—					
Seal intact		—					
Cooling media present	—		2	2	2		
			1	2	3		

LAB USE ONLY	Yes	No	°C			
Seal present		—				
Seal intact		—				
Cooling media present	—		10	10	9	
			1	2	3	

LAB USE ONLY	Yes	No	°C			
Seal present		—				
Seal intact		—				
Cooling media present		—	4	4	4	
			1	2	3	

Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special instructions
1						1 Ht Maria Zamora	2025	06	26	09	26	
2						2						

LCE frozen

Your P.O. #: WHR438
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 114378

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/10/06
Report #: R3718395
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C580607
Received: 2025/09/22, 11:05

Sample Matrix: Sediment
Samples Received: 39

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
BC total organic carbon LECO method (1)	10	N/A	2025/10/02	CAL SOP-00243	BCMOE TOC s 08/14
BC total organic carbon LECO method (1)	20	N/A	2025/10/03	CAL SOP-00243	BCMOE TOC s 08/14
BC total organic carbon LECO method (1)	9	N/A	2025/10/06	CAL SOP-00243	BCMOE TOC s 08/14
Elements by ICPMS (total) (2)	1	2025/10/03	2025/10/03	BBY7SOP-00004 / BBY7SOP-00001	EPA 6020b R2 m
Elements by ICPMS (total) (2)	16	2025/09/26	2025/09/26	BBY7SOP-00004 / BBY7SOP-00001	EPA 6020b R2 m
Elements by ICPMS (total) (2)	22	2025/09/26	2025/09/27	BBY7SOP-00004 / BBY7SOP-00001	EPA 6020b R2 m
pH (2:1 DI Water Extract)	1	2025/10/03	2025/10/03	BBY6SOP-00028	BCMOE BCLM Mar2005 m
pH (2:1 DI Water Extract)	38	2025/09/26	2025/09/26	BBY6SOP-00028	BCMOE BCLM Mar2005 m
Total Carbon & Sulphur in Soil (1)	20	N/A	2025/10/03	CAL SOP-00243	LECO 203-821-498 m
Total Carbon & Sulphur in Soil (1)	10	N/A	2025/10/04	CAL SOP-00243	LECO 203-821-498 m
Total Carbon & Sulphur in Soil (1)	9	N/A	2025/10/06	CAL SOP-00243	LECO 203-821-498 m
Texture by Hydrometer (Sand, Silt, Clay)	18	N/A	2025/09/26	BBY6SOP-00051	Carter 2nd ed 55.3 m
Texture by Hydrometer (Sand, Silt, Clay)	17	N/A	2025/09/27	BBY6SOP-00051	Carter 2nd ed 55.3 m
Texture by Hydrometer (Sand, Silt, Clay)	3	N/A	2025/09/29	BBY6SOP-00051	Carter 2nd ed 55.3 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Your P.O. #: WHR438
Your Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your C.O.C. #: 114378

Attention: Irene Tuite

SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse, YT
CANADA Y1A 1N2

Report Date: 2025/10/06
Report #: R3718395
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C580607

Received: 2025/09/22, 11:05

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) The sample is prepaired per the BC MOE Lab Manual "Strong Acid Leachable Metals (SALM) in Soil - Prescriptive", Revision Nov 6, 2015.

Encryption Key



Bureau Veritas
06 Oct 2025 17:53:29

Please direct all questions regarding this Certificate of Analysis to:
Nahed Amer, Key Account Specialist
Email: Nahed.AMER@bureauveritas.com
Phone# (604) 734 7276

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SEDIMENT

Bureau Veritas ID		DTN486	DTN487	DTN488	DTN489	DTN490	DTN491	DTN492		
Sampling Date		2025/09/15 15:30	2025/09/15 15:45	2025/09/15 16:00	2025/09/15 16:10	2025/09/15 16:20	2025/09/15 16:20	2025/09/16 13:10		
COC Number		114378	114378	114378	114378	114378	114378	114378		
	UNITS	SW24-7-1	SW24-7-2	SW24-7-3	SW24-7-4	SW24-7-5	SW24-7-5-SPLIT	TUL-09/W51-1	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	87	88	78	82	81	83	75	2.0	C100815
% silt by hydrometer	%	12	9.7	17	16	14	13	23	2.0	C100815
Clay Content	%	<2.0	2.3	4.9	2.3	5.5	5.0	2.8	2.0	C100815
RDL = Reportable Detection Limit										

Bureau Veritas ID		DTN493	DTN494	DTN495	DTN496	DTN497	DTN498		
Sampling Date		2025/09/16 13:20	2025/09/16 13:35	2025/09/16 13:45	2025/09/16 13:55	2025/09/16 16:15	2025/09/16 16:20		
COC Number		114378	114378	114378	114378	114378	114378		
	UNITS	TUL-09/W51-2	TUL-09/W51-3	TUL-09/W51-4	TUL-09/W51-5	SW16-8-1	SW16-8-2	RDL	QC Batch
Physical Properties									
% sand by hydrometer	%	71	67	73	65	92	94	2.0	C100815
% silt by hydrometer	%	29	32	27	34	8.0	5.1	2.0	C100815
Clay Content	%	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	C100815
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN499	DTN500	DTN501	DTN502	DTN503		DTN504		
Sampling Date		2025/09/16 16:30	2025/09/16 16:50	2025/09/16 17:00	2025/09/17 12:50	2025/09/17 13:15		2025/09/17 12:55		
COC Number		114378	114378	114378	114378	114378		114378		
	UNITS	SW16-8-3	SW16-8-4	SW16-8-5	W11-1	W11-2	QC Batch	W11-3	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	91	77	93	86	87	C100815	98	2.0	C101971
% silt by hydrometer	%	8.6	21	4.5	13	11	C100815	<2.0	2.0	C101971
Clay Content	%	<2.0	<2.0	2.1	<2.0	2.8	C100815	2.8	2.0	C101971
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

RESULTS OF CHEMICAL ANALYSES OF SEDIMENT

Bureau Veritas ID		DTN505	DTN506	DTN507	DTN508	DTN509	DTN510	DTN511		
Sampling Date		2025/09/17 13:45	2025/09/17 13:00	2025/09/17 13:00	2025/09/17 14:15	2025/09/17 14:15	2025/09/17 14:25	2025/09/17 14:50		
COC Number		114378	114378	114378	114378	114378	114378	114378		
	UNITS	W11-4	W11-5	W11-5-SPLIT	SW24-11-1	SW24-11-2	SW24-11-3	SW24-11-4	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	89	92	93	87	72	80	54	2.0	C101971
% silt by hydrometer	%	8.2	2.5	4.7	10	25	16	41	2.0	C101971
Clay Content	%	2.9	5.6	2.2	2.6	2.8	4.6	5.3	2.0	C101971
RDL = Reportable Detection Limit										

Bureau Veritas ID		DTN512	DTN514	DTN515	DTN516	DTN517	DTN518	DTN519		
Sampling Date		2025/09/17 14:30	2025/09/17 17:30	2025/09/17 18:20	2025/09/17 18:30	2025/09/17 18:30	2025/09/17 17:40	2025/09/17 17:50		
COC Number		114378	114378	114378	114378	114378	114378	114378		
	UNITS	SW24-11-5	TUL-06-1	TUL-06-2	TUL-06-3	TUL-06-3-SPLIT	TUL-06-4	TUL-06-5	RDL	QC Batch
Physical Properties										
% sand by hydrometer	%	76	73	54	70	72	97	87	2.0	C101971
% silt by hydrometer	%	20	24	41	26	23	<2.0	8.4	2.0	C101971
Clay Content	%	4.5	2.7	5.1	4.1	5.1	2.7	4.3	2.0	C101971
RDL = Reportable Detection Limit										

Bureau Veritas ID		DTN520	DTN521		DTN522	DTN523	DTN524		
Sampling Date		2025/09/19 11:20	2025/09/19 11:25		2025/09/19 11:40	2025/09/19 11:50	2025/09/19 12:15		
COC Number		114378	114378		114378	114378	114378		
	UNITS	W10/TUL-00-1	W10/TUL-00-2	QC Batch	W10/TUL-00-3	W10/TUL-00-4	W10/TUL-00-5	RDL	QC Batch
Physical Properties									
% sand by hydrometer	%	99	98	C101971	98	98	98	2.0	C104160
% silt by hydrometer	%	<2.0	<2.0	C101971	<2.0	2.0	<2.0	2.0	C104160
Clay Content	%	<2.0	2.2	C101971	<2.0	<2.0	<2.0	2.0	C104160
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

MISCELLANEOUS (SEDIMENT)

Bureau Veritas ID		DTN486	DTN487	DTN488	DTN489		DTN490		
Sampling Date		2025/09/15 15:30	2025/09/15 15:45	2025/09/15 16:00	2025/09/15 16:10		2025/09/15 16:20		
COC Number		114378	114378	114378	114378		114378		
	UNITS	SW24-7-1	SW24-7-2	SW24-7-3	SW24-7-4	QC Batch	SW24-7-5	RDL	QC Batch
Misc. Inorganics									
Total Organic Carbon (C)	%	0.48	0.52	0.44	0.58	C109999	0.59	0.050	C107998
Total Sulphur (S)	%	0.07	0.06	0.06	<0.06	C110368	<0.06	0.06	C110412
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN491	DTN492		DTN493	DTN494	DTN495		
Sampling Date		2025/09/15 16:20	2025/09/16 13:10		2025/09/16 13:20	2025/09/16 13:35	2025/09/16 13:45		
COC Number		114378	114378		114378	114378	114378		
	UNITS	SW24-7-5-SPLIT	TUL-09/W51-1	QC Batch	TUL-09/W51-2	TUL-09/W51-3	TUL-09/W51-4	RDL	QC Batch
Misc. Inorganics									
Total Organic Carbon (C)	%	0.54	0.65	C109999	0.51	0.54	0.38	0.050	C112562
Total Sulphur (S)	%	<0.06	0.08	C110368	0.21	0.16	0.11	0.06	C112462
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN496	DTN497	DTN498		DTN499		DTN500		
Sampling Date		2025/09/16 13:55	2025/09/16 16:15	2025/09/16 16:20		2025/09/16 16:30		2025/09/16 16:50		
COC Number		114378	114378	114378		114378		114378		
	UNITS	TUL-09/W51-5	SW16-8-1	SW16-8-2	QC Batch	SW16-8-3	QC Batch	SW16-8-4	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.58	0.42	0.43	C112562	0.63	C107998	1.2	0.050	C112562
Total Sulphur (S)	%	0.18	0.08	0.07	C112462	<0.06	C110412	<0.06	0.06	C112462
RDL = Reportable Detection Limit										

Bureau Veritas ID		DTN501		DTN502		DTN503	DTN504	DTN505		
Sampling Date		2025/09/16 17:00		2025/09/17 12:50		2025/09/17 13:15	2025/09/17 12:55	2025/09/17 13:45		
COC Number		114378		114378		114378	114378	114378		
	UNITS	SW16-8-5	QC Batch	W11-1	QC Batch	W11-2	W11-3	W11-4	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.34	C109999	0.49	C107998	0.50	0.33	0.63	0.050	C109999
Total Sulphur (S)	%	<0.06	C110368	0.10	C110412	0.16	0.09	0.06	0.06	C110368
RDL = Reportable Detection Limit										

MISCELLANEOUS (SEDIMENT)

Bureau Veritas ID		DTN506	DTN507		DTN508		DTN509		
Sampling Date		2025/09/17 13:00	2025/09/17 13:00		2025/09/17 14:15		2025/09/17 14:15		
COC Number		114378	114378		114378		114378		
	UNITS	W11-5	W11-5-SPLIT	QC Batch	SW24-11-1	QC Batch	SW24-11-2	RDL	QC Batch
Misc. Inorganics									
Total Organic Carbon (C)	%	0.41	0.36	C112562	0.86	C109999	1.3	0.050	C107998
Total Sulphur (S)	%	0.10	0.06	C112462	0.11	C110368	0.08	0.06	C110948
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN510		DTN511		DTN512	DTN513		
Sampling Date		2025/09/17 14:25		2025/09/17 14:50		2025/09/17 14:30	2025/09/17 14:30		
COC Number		114378		114378		114378	114378		
	UNITS	SW24-11-3	QC Batch	SW24-11-4	QC Batch	SW24-11-5	SW24-11-5-SPLIT	RDL	QC Batch
Misc. Inorganics									
Total Organic Carbon (C)	%	0.56	C107998	1.1	C109999	1.3	0.48	0.050	C107998
Total Sulphur (S)	%	0.08	C110412	0.13	C110368	0.12	<0.06	0.06	C110412
RDL = Reportable Detection Limit									

Bureau Veritas ID		DTN514		DTN515	DTN516		DTN517	DTN518		
Sampling Date		2025/09/17 17:30		2025/09/17 18:20	2025/09/17 18:30		2025/09/17 18:30	2025/09/17 17:40		
COC Number		114378		114378	114378		114378	114378		
	UNITS	TUL-06-1	QC Batch	TUL-06-2	TUL-06-3	QC Batch	TUL-06-3-SPLIT	TUL-06-4	RDL	QC Batch
Misc. Inorganics										
Total Organic Carbon (C)	%	0.36	C109999	0.48	0.88	C107998	0.59	0.14	0.050	C109999
Total Sulphur (S)	%	0.13	C110368	0.20	0.23	C110412	0.21	<0.06	0.06	C110368
RDL = Reportable Detection Limit										

Bureau Veritas ID		DTN519		DTN520	DTN521	DTN522	DTN523		
Sampling Date		2025/09/17 17:50		2025/09/19 11:20	2025/09/19 11:25	2025/09/19 11:40	2025/09/19 11:50		
COC Number		114378		114378	114378	114378	114378		
	UNITS	TUL-06-5	QC Batch	W10/TUL-00-1	W10/TUL-00-2	W10/TUL-00-3	W10/TUL-00-4	RDL	QC Batch
Misc. Inorganics									
Total Organic Carbon (C)	%	0.18	C107998	0.092	0.13	0.11	0.087	0.050	C109999
Total Sulphur (S)	%	<0.06	C110412	<0.06	<0.06	<0.06	<0.06	0.06	C110368
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

MISCELLANEOUS (SEDIMENT)

Bureau Veritas ID		DTN524		
Sampling Date		2025/09/19 12:15		
COC Number		114378		
	UNITS	W10/TUL-00-5	RDL	QC Batch
Misc. Inorganics				
Total Organic Carbon (C)	%	0.071	0.050	C109999
Total Sulphur (S)	%	<0.06	0.06	C110368
RDL = Reportable Detection Limit				

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN486	DTN487	DTN488	DTN489	DTN490	DTN491		
Sampling Date		2025/09/15 15:30	2025/09/15 15:45	2025/09/15 16:00	2025/09/15 16:10	2025/09/15 16:20	2025/09/15 16:20		
COC Number		114378	114378	114378	114378	114378	114378		
	UNITS	SW24-7-1	SW24-7-2	SW24-7-3	SW24-7-4	SW24-7-5	SW24-7-5-SPLIT	RDL	QC Batch
Physical Properties									
Soluble (2:1) pH	pH	8.30	8.29	8.22	8.21	8.22	8.25	N/A	C101662
Total Metals by ICPMS									
Total Aluminum (Al)	mg/kg	11000	11300	12100	11600	12000	12700	100	C101655
Total Antimony (Sb)	mg/kg	1.46	1.59	1.67	1.83	1.46	1.60	0.10	C101655
Total Arsenic (As)	mg/kg	24.1	29.4	37.5	31.6	27.4	30.1	0.20	C101655
Total Barium (Ba)	mg/kg	110 (1)	134	158	151	135	147	0.20	C101655
Total Beryllium (Be)	mg/kg	0.40	0.31	0.29	0.32	0.33	0.33	0.20	C101655
Total Bismuth (Bi)	mg/kg	0.14	0.13	0.36	0.19	0.40	0.21	0.10	C101655
Total Boron (B)	mg/kg	5.8	2.6	2.9	2.7	2.2	2.1	1.0	C101655
Total Cadmium (Cd)	mg/kg	0.693	0.589	0.597	0.678	0.628	0.694	0.050	C101655
Total Calcium (Ca)	mg/kg	13400	14400	12000	13200	11400	12300	100	C101655
Total Chromium (Cr)	mg/kg	31.1	33.8	42.3	36.9	33.9	36.5	0.50	C101655
Total Cobalt (Co)	mg/kg	10.5	11.5	12.8	12.0	11.7	12.2	0.10	C101655
Total Copper (Cu)	mg/kg	38.1	44.3	45.0	74.7	47.7	50.2	0.50	C101655
Total Iron (Fe)	mg/kg	26100	27300	43000	31500	28600	29700	100	C101655
Total Lead (Pb)	mg/kg	7.01	7.11	13.0	11.0	9.15	10.0	0.10	C101655
Total Lithium (Li)	mg/kg	14.4	14.4	14.4	14.6	14.8	15.4	0.50	C101655
Total Magnesium (Mg)	mg/kg	9470	10000	10100	10100	10100	10500	100	C101655
Total Manganese (Mn)	mg/kg	464	492	527	510	531	553	0.20	C101655
Total Mercury (Hg)	mg/kg	0.065	<0.050	0.052	0.050	<0.050	<0.050	0.050	C101655
Total Molybdenum (Mo)	mg/kg	2.98	3.01	3.27	3.59	3.41	3.61	0.10	C101655
Total Nickel (Ni)	mg/kg	45.5	48.6	50.6	51.3	49.1	50.9	0.50	C101655
Total Phosphorus (P)	mg/kg	681	715	819	698	695	728	10	C101655
Total Potassium (K)	mg/kg	1070 (2)	1210	1320	1210	1320	1390	100	C101655
Total Selenium (Se)	mg/kg	0.91	0.89	0.89	0.95	0.93	0.92	0.50	C101655
Total Silver (Ag)	mg/kg	0.098	0.104	0.139	0.139	0.140	0.142	0.050	C101655
Total Sodium (Na)	mg/kg	154	169	203	168	205	219	100	C101655
Total Strontium (Sr)	mg/kg	62.4	66.9	61.9	65.6	58.0	63.8	0.10	C101655

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Matrix Spike outside acceptance criteria (10% of analytes failure allowed).
(2) Matrix Spike outside acceptance criteria due to sample matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN486	DTN487	DTN488	DTN489	DTN490	DTN491		
Sampling Date		2025/09/15 15:30	2025/09/15 15:45	2025/09/15 16:00	2025/09/15 16:10	2025/09/15 16:20	2025/09/15 16:20		
COC Number		114378	114378	114378	114378	114378	114378		
	UNITS	SW24-7-1	SW24-7-2	SW24-7-3	SW24-7-4	SW24-7-5	SW24-7-5-SPLIT	RDL	QC Batch
Total Thallium (Tl)	mg/kg	0.222	0.230	0.224	0.244	0.238	0.282	0.050	C101655
Total Tin (Sn)	mg/kg	0.22	0.22	0.31	0.21	0.27	0.28	0.10	C101655
Total Titanium (Ti)	mg/kg	366	399	509	452	481	500	1.0	C101655
Total Tungsten (W)	mg/kg	<0.50	<0.50	0.59	1.07	<0.50	<0.50	0.50	C101655
Total Uranium (U)	mg/kg	0.897	0.805	3.41	1.59	1.13	1.17	0.050	C101655
Total Vanadium (V)	mg/kg	45.8	49.4	98.6	59.1	51.4	54.0	1.0	C101655
Total Zinc (Zn)	mg/kg	105	102	106	121	113	114	1.0	C101655
Total Zirconium (Zr)	mg/kg	1.03	1.02	1.27	1.29	1.24	1.41	0.50	C101655
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN492	DTN493	DTN494	DTN495	DTN496	DTN497		
Sampling Date		2025/09/16 13:10	2025/09/16 13:20	2025/09/16 13:35	2025/09/16 13:45	2025/09/16 13:55	2025/09/16 16:15		
COC Number		114378	114378	114378	114378	114378	114378		
	UNITS	TUL-09/W51-1	TUL-09/W51-2	TUL-09/W51-3	TUL-09/W51-4	TUL-09/W51-5	SW16-8-1	RDL	QC Batch
Physical Properties									
Soluble (2:1) pH	pH	8.25	8.20	8.17	8.32	8.21	7.53	N/A	C101662
Total Metals by ICPMS									
Total Aluminum (Al)	mg/kg	9350	9460	9520	9060	10600	10600	100	C101655
Total Antimony (Sb)	mg/kg	1.44	1.34	1.29	0.96	1.69	1.88	0.10	C101655
Total Arsenic (As)	mg/kg	30.4	25.2	25.4	16.7	34.2	27.5	0.20	C101655
Total Barium (Ba)	mg/kg	146	142	143	117	172	141	0.20	C101655
Total Beryllium (Be)	mg/kg	0.27	0.26	0.25	<0.20	0.31	0.30	0.20	C101655
Total Bismuth (Bi)	mg/kg	0.12	0.13	0.15	<0.10	0.15	0.14	0.10	C101655
Total Boron (B)	mg/kg	2.2	1.8	1.7	1.0	2.3	1.5	1.0	C101655
Total Cadmium (Cd)	mg/kg	0.623	0.490	0.496	0.354	0.614	2.06	0.050	C101655
Total Calcium (Ca)	mg/kg	12500	10800	9700	8900	13500	5380	100	C101655
Total Chromium (Cr)	mg/kg	29.8	28.9	29.9	24.7	35.2	34.2	0.50	C101655
Total Cobalt (Co)	mg/kg	11.9	11.3	11.2	9.10	14.1	9.98	0.10	C101655
Total Copper (Cu)	mg/kg	42.4	41.3	42.2	32.4	48.9	109	0.50	C101655
Total Iron (Fe)	mg/kg	25100	24700	25000	20900	28600	29500	100	C101655
Total Lead (Pb)	mg/kg	6.86	6.43	7.27	5.19	8.16	31.9	0.10	C101655
Total Lithium (Li)	mg/kg	12.7	11.9	11.7	11.3	13.8	14.0	0.50	C101655
Total Magnesium (Mg)	mg/kg	8890	8480	8420	7610	9940	8620	100	C101655
Total Manganese (Mn)	mg/kg	479	431	450	398	526	413	0.20	C101655
Total Mercury (Hg)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	0.193	0.050	C101655
Total Molybdenum (Mo)	mg/kg	3.45	3.04	3.03	2.28	3.77	3.81	0.10	C101655
Total Nickel (Ni)	mg/kg	55.4	54.6	47.7	37.5	63.6	41.6	0.50	C101655
Total Phosphorus (P)	mg/kg	695	667	660	566	754	706	10	C101655
Total Potassium (K)	mg/kg	1310	1260	1310	1260	1310	944	100	C101655
Total Selenium (Se)	mg/kg	1.06	0.92	0.92	0.67	1.26	0.88	0.50	C101655
Total Silver (Ag)	mg/kg	0.107	0.115	0.127	0.081	0.127	0.244	0.050	C101655
Total Sodium (Na)	mg/kg	<100	130	139	117	130	151	100	C101655
Total Strontium (Sr)	mg/kg	58.0	53.1	47.9	38.9	65.5	29.2	0.10	C101655
Total Thallium (Tl)	mg/kg	0.236	0.211	0.213	0.157	0.247	0.248	0.050	C101655
Total Tin (Sn)	mg/kg	0.23	0.16	0.18	0.17	0.19	0.22	0.10	C101655

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN492	DTN493	DTN494	DTN495	DTN496	DTN497		
Sampling Date		2025/09/16 13:10	2025/09/16 13:20	2025/09/16 13:35	2025/09/16 13:45	2025/09/16 13:55	2025/09/16 16:15		
COC Number		114378	114378	114378	114378	114378	114378		
	UNITS	TUL-09/W51-1	TUL-09/W51-2	TUL-09/W51-3	TUL-09/W51-4	TUL-09/W51-5	SW16-8-1	RDL	QC Batch
Total Titanium (Ti)	mg/kg	273	325	361	326	322	336	1.0	C101655
Total Tungsten (W)	mg/kg	<0.50	<0.50	0.51	<0.50	<0.50	<0.50	0.50	C101655
Total Uranium (U)	mg/kg	0.846	0.835	1.05	0.960	0.981	1.65	0.050	C101655
Total Vanadium (V)	mg/kg	40.6	41.1	44.8	36.2	45.5	55.5	1.0	C101655
Total Zinc (Zn)	mg/kg	89.9	79.1	79.8	66.0	96.3	276	1.0	C101655
Total Zirconium (Zr)	mg/kg	0.82	0.94	0.88	0.75	1.00	1.07	0.50	C101655
RDL = Reportable Detection Limit									

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN498	DTN499	DTN500	DTN501		DTN502	DTN503		
Sampling Date		2025/09/16 16:20	2025/09/16 16:30	2025/09/16 16:50	2025/09/16 17:00		2025/09/17 12:50	2025/09/17 13:15		
COC Number		114378	114378	114378	114378		114378	114378		
	UNITS	SW16-8-2	SW16-8-3	SW16-8-4	SW16-8-5	QC Batch	W11-1	W11-2	RDL	QC Batch
Physical Properties										
Soluble (2:1) pH	pH	7.98	7.44	7.82	7.63	C101662	7.37	7.78	N/A	C101884
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	9410	10400	12200	10700	C101655	13800	11300	100	C101877
Total Antimony (Sb)	mg/kg	1.44	1.24	3.76	2.10	C101655	4.15	4.85	0.10	C101877
Total Arsenic (As)	mg/kg	19.1	17.8	42.5	25.8	C101655	51.5	48.8	0.20	C101877
Total Barium (Ba)	mg/kg	90.8	131	222	123	C101655	181	193	0.20	C101877
Total Beryllium (Be)	mg/kg	0.27	<0.20	0.40	0.29	C101655	0.46	0.38	0.20	C101877
Total Bismuth (Bi)	mg/kg	0.12	0.14	0.21	0.13	C101655	0.19	0.25	0.10	C101877
Total Boron (B)	mg/kg	1.1	<1.0	2.3	1.5	C101655	6.8	5.3	1.0	C101877
Total Cadmium (Cd)	mg/kg	1.51	1.97	1.83	2.80	C101655	5.63	3.95	0.050	C101877
Total Calcium (Ca)	mg/kg	4490	6050	10100	4790	C101655	7170	9380	100	C101877
Total Chromium (Cr)	mg/kg	25.2	23.8	36.3	32.8	C101655	34.2	35.3	0.50	C101877
Total Cobalt (Co)	mg/kg	8.00	8.42	12.9	9.78	C101655	10.2	10.5	0.10	C101877
Total Copper (Cu)	mg/kg	85.6	79.6	107	100	C101655	2470	1110	0.50	C101877
Total Iron (Fe)	mg/kg	20900	23300	33400	28000	C101655	36800	38300	100	C101877
Total Lead (Pb)	mg/kg	16.2	14.7	33.4	21.0	C101655	102	99.8	0.10	C101877
Total Lithium (Li)	mg/kg	12.7	13.2	15.5	14.4	C101655	13.4	12.9	0.50	C101877
Total Magnesium (Mg)	mg/kg	7680	7920	9880	8710	C101655	8080	7930	100	C101877
Total Manganese (Mn)	mg/kg	356	386	719	407	C101655	427	448	0.20	C101877
Total Mercury (Hg)	mg/kg	<0.050	<0.050	0.106	0.125	C101655	0.230	0.280	0.050	C101877
Total Molybdenum (Mo)	mg/kg	3.25	2.64	5.21	3.64	C101655	5.21	4.63	0.10	C101877
Total Nickel (Ni)	mg/kg	33.5	30.9	52.5	42.4	C101655	40.6	42.1	0.50	C101877
Total Phosphorus (P)	mg/kg	537	672	870	688	C101655	719	743	10	C101877
Total Potassium (K)	mg/kg	928	1080	1080	986	C101655	1090	1050	100	C101877
Total Selenium (Se)	mg/kg	0.69	0.60	1.43	0.87	C101655	1.11	1.19	0.50	C101877
Total Silver (Ag)	mg/kg	0.146	0.140	0.454	0.208	C101655	0.484	0.716	0.050	C101877
Total Sodium (Na)	mg/kg	119	168	190	144	C101655	162	155	100	C101877
Total Strontium (Sr)	mg/kg	26.7	29.1	48.4	28.1	C101655	39.4	48.8	0.10	C101877
Total Thallium (Tl)	mg/kg	0.216	0.180	0.350	0.242	C101655	0.327	0.304	0.050	C101877
Total Tin (Sn)	mg/kg	0.16	0.21	0.27	0.18	C101655	0.25	0.26	0.10	C101877

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN498	DTN499	DTN500	DTN501		DTN502	DTN503		
Sampling Date		2025/09/16 16:20	2025/09/16 16:30	2025/09/16 16:50	2025/09/16 17:00		2025/09/17 12:50	2025/09/17 13:15		
COC Number		114378	114378	114378	114378		114378	114378		
	UNITS	SW16-8-2	SW16-8-3	SW16-8-4	SW16-8-5	QC Batch	W11-1	W11-2	RDL	QC Batch
Total Titanium (Ti)	mg/kg	284	364	397	331	C101655	370	365	1.0	C101877
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	C101655	<0.50	<0.50	0.50	C101877
Total Uranium (U)	mg/kg	0.886	1.11	1.29	0.907	C101655	3.69	1.97	0.050	C101877
Total Vanadium (V)	mg/kg	38.1	42.4	57.2	50.7	C101655	73.9	77.0	1.0	C101877
Total Zinc (Zn)	mg/kg	213	255	305	354	C101655	1450	853	1.0	C101877
Total Zirconium (Zr)	mg/kg	0.90	1.04	1.20	1.06	C101655	1.09	1.03	0.50	C101877
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN504	DTN505	DTN506	DTN507	DTN508	DTN509	DTN510		
Sampling Date		2025/09/17 12:55	2025/09/17 13:45	2025/09/17 13:00	2025/09/17 13:00	2025/09/17 14:15	2025/09/17 14:15	2025/09/17 14:25		
COC Number		114378	114378	114378	114378	114378	114378	114378		
	UNITS	**W11-3**	**W11-4**	**W11-5**	**W11-5-SPLIT**	**SW24-11-1**	**SW24-11-2**	**SW24-11-3**	**RDL**	**QC Batch**
Physical Properties										
Soluble (2:1) pH	pH	7.10	7.53	7.83	7.85	8.14	8.10	8.25	N/A	C101884
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	11100	15500	12400	11600	11700	14000	11500	100	C101877
Total Antimony (Sb)	mg/kg	1.58	2.41	1.78	2.13	2.56	3.65	1.69	0.10	C101877
Total Arsenic (As)	mg/kg	19.9	46.0	30.0	28.0	45.2	63.0	33.9	0.20	C101877
Total Barium (Ba)	mg/kg	84.0	115	106	94.5	166	175	175	0.20	C101877
Total Beryllium (Be)	mg/kg	0.26	0.48	0.37	0.33	0.45	0.58	0.40	0.20	C101877
Total Bismuth (Bi)	mg/kg	0.13	0.20	0.39	0.11	0.14	0.17	0.19	0.10	C101877
Total Boron (B)	mg/kg	2.9	4.6	4.3	3.8	6.9	7.5	4.6	1.0	C101877
Total Cadmium (Cd)	mg/kg	2.52	6.80	4.38	4.10	0.854	1.25	0.633	0.050	C101877
Total Calcium (Ca)	mg/kg	8120	9330	10700	10800	21000	26800	15700	100	C101877
Total Chromium (Cr)	mg/kg	27.3	35.5	32.6	31.0	38.2	45.1	41.2	0.50	C101877
Total Cobalt (Co)	mg/kg	7.69	11.1	9.95	9.28	12.7	18.1	11.9	0.10	C101877
Total Copper (Cu)	mg/kg	1380	3090	1630	1390	43.4	62.7	39.7	0.50	C101877
Total Iron (Fe)	mg/kg	22700	29400	25500	23800	29900	36600	27800	100	C101877
Total Lead (Pb)	mg/kg	44.9	59.1	32.1	28.3	9.53	12.7	8.91	0.10	C101877
Total Lithium (Li)	mg/kg	10.6	14.4	13.3	13.2	17.3	21.3	15.4	0.50	C101877
Total Magnesium (Mg)	mg/kg	7140	9340	8370	8140	11200	13800	10200	100	C101877
Total Manganese (Mn)	mg/kg	349	501	446	426	535	786	554	0.20	C101877
Total Mercury (Hg)	mg/kg	0.075	0.055	0.050	0.062	0.093	0.111	0.060	0.050	C101877
Total Molybdenum (Mo)	mg/kg	2.14	5.54	3.70	3.50	4.70	6.75	3.53	0.10	C101877
Total Nickel (Ni)	mg/kg	24.6	45.0	41.7	41.6	73.5	103	56.0	0.50	C101877
Total Phosphorus (P)	mg/kg	694	662	629	586	739	855	745	10	C101877
Total Potassium (K)	mg/kg	1020	1300	1200	1160	1230	1330	1440	100	C101877
Total Selenium (Se)	mg/kg	<0.50	1.14	0.92	0.93	1.63	2.23	1.11	0.50	C101877
Total Silver (Ag)	mg/kg	0.160	0.180	0.137	0.138	0.156	0.182	0.135	0.050	C101877
Total Sodium (Na)	mg/kg	128	199	168	164	105	115	165	100	C101877
Total Strontium (Sr)	mg/kg	35.9	46.8	54.5	50.8	109	134	76.2	0.10	C101877
Total Thallium (Tl)	mg/kg	0.167	0.299	0.252	0.253	0.329	0.456	0.274	0.050	C101877
Total Tin (Sn)	mg/kg	0.14	0.24	0.22	0.19	0.22	0.25	0.20	0.10	C101877

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN504	DTN505	DTN506	DTN507	DTN508	DTN509	DTN510		
Sampling Date		2025/09/17 12:55	2025/09/17 13:45	2025/09/17 13:00	2025/09/17 13:00	2025/09/17 14:15	2025/09/17 14:15	2025/09/17 14:25		
COC Number		114378	114378	114378	114378	114378	114378	114378		
	UNITS	**W11-3**	**W11-4**	**W11-5**	**W11-5-SPLIT**	**SW24-11-1**	**SW24-11-2**	**SW24-11-3**	**RDL**	**QC Batch**
Total Titanium (Ti)	mg/kg	331	435	388	354	154	106	343	1.0	C101877
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C101877
Total Uranium (U)	mg/kg	1.81	4.12	2.26	1.94	0.858	1.07	0.965	0.050	C101877
Total Vanadium (V)	mg/kg	40.7	51.0	47.1	43.6	44.7	50.4	47.8	1.0	C101877
Total Zinc (Zn)	mg/kg	624	1830	1240	1080	120	161	96.5	1.0	C101877
Total Zirconium (Zr)	mg/kg	0.64	1.10	1.02	1.02	1.30	1.63	1.26	0.50	C101877
RDL = Reportable Detection Limit										

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN511	DTN512		DTN513		DTN514	DTN515		
Sampling Date		2025/09/17 14:50	2025/09/17 14:30		2025/09/17 14:30		2025/09/17 17:30	2025/09/17 18:20		
COC Number		114378	114378		114378		114378	114378		
	UNITS	SW24-11-4	SW24-11-5	QC Batch	SW24-11-5-SPLIT	QC Batch	TUL-06-1	TUL-06-2	RDL	QC Batch
Physical Properties										
Soluble (2:1) pH	pH	8.06	8.09	C101884	7.76	C109891	8.22	8.22	N/A	C101884
Total Metals by ICPMS										
Total Aluminum (Al)	mg/kg	13200	14300	C101877	12700	C109886	9110	7740	100	C101877
Total Antimony (Sb)	mg/kg	4.00	3.68	C101877	1.74	C109886	0.25	0.21	0.10	C101877
Total Arsenic (As)	mg/kg	66.4	66.3	C101877	34.6	C109886	4.23	3.62	0.20	C101877
Total Barium (Ba)	mg/kg	230 (1)	196	C101877	109	C109886	116	137	0.20	C101877
Total Beryllium (Be)	mg/kg	0.59	0.65	C101877	0.40	C109886	<0.20	<0.20	0.20	C101877
Total Bismuth (Bi)	mg/kg	0.19	0.19	C101877	0.17	C109886	<0.10	<0.10	0.10	C101877
Total Boron (B)	mg/kg	8.6	12.1	C101877	3.1	C109886	3.1	1.9	1.0	C101877
Total Cadmium (Cd)	mg/kg	1.22	1.28	C101877	4.80	C109886	0.194	0.190	0.050	C101877
Total Calcium (Ca)	mg/kg	25700	27500	C101877	11700	C109886	4190	4410	100	C101877
Total Chromium (Cr)	mg/kg	42.7	48.0	C101877	34.4	C109886	36.9	26.3	0.50	C101877
Total Cobalt (Co)	mg/kg	17.5	18.0	C101877	10.6	C109886	9.63	9.35	0.10	C101877
Total Copper (Cu)	mg/kg	55.4	71.3	C101877	1720	C109886	41.2	45.7	0.50	C101877
Total Iron (Fe)	mg/kg	35000	38800	C101877	27900	C109886	18700	18200	100	C101877
Total Lead (Pb)	mg/kg	13.2	13.4	C101877	37.4	C109886	3.60	3.51	0.10	C101877
Total Lithium (Li)	mg/kg	19.2	22.2	C101877	15.2	C109886	8.97	8.38	0.50	C101877
Total Magnesium (Mg)	mg/kg	12300	13800	C101877	9200	C109886	7340	6700	100	C101877
Total Manganese (Mn)	mg/kg	726	783	C101877	477	C109886	348	328	0.20	C101877
Total Mercury (Hg)	mg/kg	0.103	0.316	C101877	<0.050	C109886	0.068	<0.050	0.050	C101877
Total Molybdenum (Mo)	mg/kg	5.74	6.30	C101877	3.62	C109886	1.76	2.00	0.10	C101877
Total Nickel (Ni)	mg/kg	96.7	101	C101877	44.8	C109886	32.3	30.5	0.50	C101877
Total Phosphorus (P)	mg/kg	878	921	C101877	736	C109886	598	681	10	C101877
Total Potassium (K)	mg/kg	1520 (1)	1450	C101877	1380	C109886	1160	1210	100	C101877
Total Selenium (Se)	mg/kg	2.12	2.23	C101877	1.13	C109886	0.51	<0.50	0.50	C101877
Total Silver (Ag)	mg/kg	0.181	0.214	C101877	0.111	C109886	0.061	0.074	0.050	C101877
Total Sodium (Na)	mg/kg	159	141	C101877	209	C109886	102	<100	100	C101877
Total Strontium (Sr)	mg/kg	126	137	C101877	56.2	C109886	14.4	15.6	0.10	C101877
Total Thallium (Tl)	mg/kg	0.429	0.459	C101877	0.283	C109886	0.084	0.083	0.050	C101877

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN511	DTN512		DTN513		DTN514	DTN515		
Sampling Date		2025/09/17 14:50	2025/09/17 14:30		2025/09/17 14:30		2025/09/17 17:30	2025/09/17 18:20		
COC Number		114378	114378		114378		114378	114378		
	UNITS	SW24-11-4	SW24-11-5	QC Batch	SW24-11-5-SPLIT	QC Batch	TUL-06-1	TUL-06-2	RDL	QC Batch
Total Tin (Sn)	mg/kg	0.31	0.32	C101877	0.63	C109886	0.12	0.11	0.10	C101877
Total Titanium (Ti)	mg/kg	173 (1)	152	C101877	380	C109886	412	395	1.0	C101877
Total Tungsten (W)	mg/kg	<0.50	<0.50	C101877	<0.50	C109886	<0.50	<0.50	0.50	C101877
Total Uranium (U)	mg/kg	1.13	1.30	C101877	2.52	C109886	0.835	0.759	0.050	C101877
Total Vanadium (V)	mg/kg	51.1	54.6	C101877	49.3	C109886	37.6	35.4	1.0	C101877
Total Zinc (Zn)	mg/kg	146	167	C101877	1430	C109886	46.5	45.7	1.0	C101877
Total Zirconium (Zr)	mg/kg	1.61	1.54	C101877	1.00	C109886	<0.50	<0.50	0.50	C101877

RDL = Reportable Detection Limit
(1) Matrix spike exceeds acceptance limits due to matrix interference.

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN516	DTN517	DTN518	DTN519	DTN520		
Sampling Date		2025/09/17 18:30	2025/09/17 18:30	2025/09/17 17:40	2025/09/17 17:50	2025/09/19 11:20		
COC Number		114378	114378	114378	114378	114378		
	UNITS	TUL-06-3	TUL-06-3-SPLIT	TUL-06-4	TUL-06-5	W10/TUL-00-1	RDL	QC Batch
Physical Properties								
Soluble (2:1) pH	pH	8.06	8.02	7.43	8.13	7.42	N/A	C101884
Total Metals by ICPMS								
Total Aluminum (Al)	mg/kg	7070	6750	6980	7780	6460	100	C101877
Total Antimony (Sb)	mg/kg	0.20	0.22	0.14	0.25	0.11	0.10	C101877
Total Arsenic (As)	mg/kg	4.76	5.91	2.47	3.11	2.97	0.20	C101877
Total Barium (Ba)	mg/kg	116	117	65.9	80.0	59.8	0.20	C101877
Total Beryllium (Be)	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	C101877
Total Bismuth (Bi)	mg/kg	0.10	0.10	<0.10	<0.10	0.12	0.10	C101877
Total Boron (B)	mg/kg	1.4	<1.0	<1.0	<1.0	<1.0	1.0	C101877
Total Cadmium (Cd)	mg/kg	0.170	0.186	0.107	0.098	0.084	0.050	C101877
Total Calcium (Ca)	mg/kg	3550	3630	2840	2900	2540	100	C101877
Total Chromium (Cr)	mg/kg	28.5	25.4	15.2	20.0	12.5	0.50	C101877
Total Cobalt (Co)	mg/kg	10.6	9.88	4.79	6.07	5.00	0.10	C101877
Total Copper (Cu)	mg/kg	53.0	64.6	15.9	19.8	14.5	0.50	C101877
Total Iron (Fe)	mg/kg	17100	16400	14400	16400	14000	100	C101877
Total Lead (Pb)	mg/kg	3.62	3.69	3.14	3.99	3.03	0.10	C101877
Total Lithium (Li)	mg/kg	6.96	6.96	7.15	8.17	7.34	0.50	C101877
Total Magnesium (Mg)	mg/kg	6480	6040	4890	5600	4640	100	C101877
Total Manganese (Mn)	mg/kg	332	308	246	274	255	0.20	C101877
Total Mercury (Hg)	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	C101877
Total Molybdenum (Mo)	mg/kg	2.20	2.00	0.82	0.82	0.55	0.10	C101877
Total Nickel (Ni)	mg/kg	33.1	31.6	11.1	16.0	10.3	0.50	C101877
Total Phosphorus (P)	mg/kg	560	541	560	492	479	10	C101877
Total Potassium (K)	mg/kg	853	846	1170	1510	1140	100	C101877
Total Selenium (Se)	mg/kg	0.63	0.59	<0.50	<0.50	<0.50	0.50	C101877
Total Silver (Ag)	mg/kg	0.073	0.070	<0.050	0.050	<0.050	0.050	C101877
Total Sodium (Na)	mg/kg	<100	<100	167	160	123	100	C101877
Total Strontium (Sr)	mg/kg	12.6	12.5	14.5	13.9	11.8	0.10	C101877
Total Thallium (Tl)	mg/kg	0.057	0.063	0.064	0.082	0.070	0.050	C101877
Total Tin (Sn)	mg/kg	0.13	<0.10	0.11	0.15	0.13	0.10	C101877

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN516	DTN517	DTN518	DTN519	DTN520		
Sampling Date		2025/09/17 18:30	2025/09/17 18:30	2025/09/17 17:40	2025/09/17 17:50	2025/09/19 11:20		
COC Number		114378	114378	114378	114378	114378		
	UNITS	TUL-06-3	TUL-06-3-SPLIT	TUL-06-4	TUL-06-5	W10/TUL-00-1	RDL	QC Batch
Total Titanium (Ti)	mg/kg	370	362	404	478	363	1.0	C101877
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C101877
Total Uranium (U)	mg/kg	0.790	0.785	2.07	0.736	0.706	0.050	C101877
Total Vanadium (V)	mg/kg	31.0	29.1	31.4	34.9	30.9	1.0	C101877
Total Zinc (Zn)	mg/kg	47.4	53.7	31.4	38.0	31.2	1.0	C101877
Total Zirconium (Zr)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	C101877
RDL = Reportable Detection Limit								

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN521	DTN522	DTN523	DTN524		
Sampling Date		2025/09/19 11:25	2025/09/19 11:40	2025/09/19 11:50	2025/09/19 12:15		
COC Number		114378	114378	114378	114378		
	UNITS	W10/TUL-00-2	W10/TUL-00-3	W10/TUL-00-4	W10/TUL-00-5	RDL	QC Batch
Physical Properties							
Soluble (2:1) pH	pH	7.35	7.53	7.48	7.48	N/A	C101906
Total Metals by ICPMS							
Total Aluminum (Al)	mg/kg	5450	7120	7060	6680	100	C101889
Total Antimony (Sb)	mg/kg	<0.10	0.14	0.17	0.14	0.10	C101889
Total Arsenic (As)	mg/kg	1.77	3.58	2.84 (1)	2.70	0.20	C101889
Total Barium (Ba)	mg/kg	35.2	56.2	64.1	64.4	0.20	C101889
Total Beryllium (Be)	mg/kg	<0.20	<0.20	<0.20	<0.20	0.20	C101889
Total Bismuth (Bi)	mg/kg	<0.10	<0.10	<0.10	<0.10	0.10	C101889
Total Boron (B)	mg/kg	<1.0	<1.0	<1.0	1.8	1.0	C101889
Total Cadmium (Cd)	mg/kg	0.080	0.102	0.086	0.090	0.050	C101889
Total Calcium (Ca)	mg/kg	2230	2700	3160	2540	100	C101889
Total Chromium (Cr)	mg/kg	5.99	13.5	16.8 (1)	14.3	0.50	C101889
Total Cobalt (Co)	mg/kg	4.04	4.95	5.57 (1)	5.01	0.10	C101889
Total Copper (Cu)	mg/kg	11.6	14.9	13.5	15.8	0.50	C101889
Total Iron (Fe)	mg/kg	11900	14400	24300 (1)	14500	100	C101889
Total Lead (Pb)	mg/kg	3.15	2.86	3.80	2.55	0.10	C101889
Total Lithium (Li)	mg/kg	6.19	7.62	7.40	7.10	0.50	C101889
Total Magnesium (Mg)	mg/kg	3600	4930	5130	5040	100	C101889
Total Manganese (Mn)	mg/kg	208	238	255	226	0.20	C101889
Total Mercury (Hg)	mg/kg	<0.050	<0.050	<0.050	<0.050	0.050	C101889
Total Molybdenum (Mo)	mg/kg	0.42	0.47	0.65 (1)	0.57	0.10	C101889
Total Nickel (Ni)	mg/kg	7.32	11.0	10.9	11.7	0.50	C101889
Total Phosphorus (P)	mg/kg	429	461	624	411	10	C101889
Total Potassium (K)	mg/kg	940	1190	1360	1350	100	C101889
Total Selenium (Se)	mg/kg	<0.50	<0.50	<0.50	<0.50	0.50	C101889
Total Silver (Ag)	mg/kg	<0.050	<0.050	<0.050 (2)	<0.050	0.050	C101889
Total Sodium (Na)	mg/kg	<100	163	184	148	100	C101889
Total Strontium (Sr)	mg/kg	10.4	13.6	17.9	13.7	0.10	C101889

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.
(2) Matrix spike exceeds acceptance limits due to matrix interference.

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

CSR/CCME METALS IN SOIL WITH HG (SEDIMENT)

Bureau Veritas ID		DTN521	DTN522	DTN523	DTN524		
Sampling Date		2025/09/19 11:25	2025/09/19 11:40	2025/09/19 11:50	2025/09/19 12:15		
COC Number		114378	114378	114378	114378		
	UNITS	W10/TUL-00-2	W10/TUL-00-3	W10/TUL-00-4	W10/TUL-00-5	RDL	QC Batch
Total Thallium (Tl)	mg/kg	0.058	0.076	0.081	0.085	0.050	C101889
Total Tin (Sn)	mg/kg	<0.10	0.12	0.14	<0.10	0.10	C101889
Total Titanium (Ti)	mg/kg	242	401	513	394	1.0	C101889
Total Tungsten (W)	mg/kg	<0.50	<0.50	<0.50	<0.50	0.50	C101889
Total Uranium (U)	mg/kg	0.616	0.851	0.702	0.793	0.050	C101889
Total Vanadium (V)	mg/kg	19.6	30.3	70.8 (1)	33.9	1.0	C101889
Total Zinc (Zn)	mg/kg	28.4	31.2	34.3	28.5	1.0	C101889
Total Zirconium (Zr)	mg/kg	0.51	0.57	0.73	<0.50	0.50	C101889

RDL = Reportable Detection Limit
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

GENERAL COMMENTS

Results relate only to the items tested.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C100815	% sand by hydrometer	2025/09/26							0.27	35	103	90 - 110
C100815	% silt by hydrometer	2025/09/26							0	35		
C100815	Clay Content	2025/09/26							6.9	35		
C101655	Total Aluminum (Al)	2025/09/26	NC	75 - 125	101	80 - 120	<100	mg/kg	10	40	105	70 - 130
C101655	Total Antimony (Sb)	2025/09/26	95	75 - 125	102	80 - 120	<0.10	mg/kg	14	30	107	70 - 130
C101655	Total Arsenic (As)	2025/09/26	101	75 - 125	101	80 - 120	<0.20	mg/kg	10	30	94	70 - 130
C101655	Total Barium (Ba)	2025/09/26	127 (1)	75 - 125	100	80 - 120	<0.20	mg/kg	11	40	102	70 - 130
C101655	Total Beryllium (Be)	2025/09/26	94	75 - 125	98	80 - 120	<0.20	mg/kg	4.8	30	106	70 - 130
C101655	Total Bismuth (Bi)	2025/09/26	95	75 - 125	96	80 - 120	<0.10	mg/kg	7.0	30		
C101655	Total Boron (B)	2025/09/26	95	75 - 125	103	80 - 120	<1.0	mg/kg	0.71	30		
C101655	Total Cadmium (Cd)	2025/09/26	97	75 - 125	99	80 - 120	<0.050	mg/kg	8.5	30	121	70 - 130
C101655	Total Calcium (Ca)	2025/09/26	NC	75 - 125	101	80 - 120	<100	mg/kg	8.8	30	98	70 - 130
C101655	Total Chromium (Cr)	2025/09/26	99	75 - 125	101	80 - 120	<0.50	mg/kg	13	30	108	70 - 130
C101655	Total Cobalt (Co)	2025/09/26	100	75 - 125	106	80 - 120	<0.10	mg/kg	11	30	101	70 - 130
C101655	Total Copper (Cu)	2025/09/26	96	75 - 125	100	80 - 120	<0.50	mg/kg	10	30	103	70 - 130
C101655	Total Iron (Fe)	2025/09/26	NC	75 - 125	100	80 - 120	<100	mg/kg	12	30	99	70 - 130
C101655	Total Lead (Pb)	2025/09/26	99	75 - 125	100	80 - 120	<0.10	mg/kg	11	40	104	70 - 130
C101655	Total Lithium (Li)	2025/09/26	94	75 - 125	99	80 - 120	<0.50	mg/kg	11	30	104	70 - 130
C101655	Total Magnesium (Mg)	2025/09/26	NC	75 - 125	101	80 - 120	<100	mg/kg	10	30	101	70 - 130
C101655	Total Manganese (Mn)	2025/09/26	NC	75 - 125	101	80 - 120	<0.20	mg/kg	13	30	102	70 - 130
C101655	Total Mercury (Hg)	2025/09/26	90	75 - 125	94	75 - 125	<0.050	mg/kg	12	40	73	70 - 130
C101655	Total Molybdenum (Mo)	2025/09/26	95	75 - 125	95	80 - 120	<0.10	mg/kg	9.3	40	102	70 - 130
C101655	Total Nickel (Ni)	2025/09/26	97	75 - 125	101	80 - 120	<0.50	mg/kg	11	30	101	70 - 130
C101655	Total Phosphorus (P)	2025/09/26	94	75 - 125	99	80 - 120	<10	mg/kg	8.8	30	96	70 - 130
C101655	Total Potassium (K)	2025/09/26	173 (1)	75 - 125	101	80 - 120	<100	mg/kg	13	40	98	70 - 130
C101655	Total Selenium (Se)	2025/09/26	101	75 - 125	103	80 - 120	<0.50	mg/kg	17	30		
C101655	Total Silver (Ag)	2025/09/26	88	75 - 125	89	80 - 120	<0.050	mg/kg	21	40	109	70 - 130
C101655	Total Sodium (Na)	2025/09/26	99	75 - 125	102	80 - 120	<100	mg/kg	14	40	97	70 - 130
C101655	Total Strontium (Sr)	2025/09/26	105	75 - 125	101	80 - 120	<0.10	mg/kg	10	40	101	70 - 130
C101655	Total Thallium (Tl)	2025/09/26	96	75 - 125	98	80 - 120	<0.050	mg/kg	14	30	109	70 - 130
C101655	Total Tin (Sn)	2025/09/26	99	75 - 125	101	80 - 120	<0.10	mg/kg	8.1	40	100	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C101655	Total Titanium (Ti)	2025/09/26	NC	75 - 125	100	80 - 120	<1.0	mg/kg	11	40		
C101655	Total Tungsten (W)	2025/09/26	87	75 - 125	100	80 - 120	<0.50	mg/kg	NC	40		
C101655	Total Uranium (U)	2025/09/26	97	75 - 125	99	80 - 120	<0.050	mg/kg	0.55	30	106	70 - 130
C101655	Total Vanadium (V)	2025/09/26	103	75 - 125	101	80 - 120	<1.0	mg/kg	12	30	100	70 - 130
C101655	Total Zinc (Zn)	2025/09/26	97	75 - 125	101	80 - 120	<1.0	mg/kg	9.2	30	103	70 - 130
C101655	Total Zirconium (Zr)	2025/09/26	108	75 - 125	100	80 - 120	<0.50	mg/kg	17	40		
C101662	Soluble (2:1) pH	2025/09/26			100	97 - 103			0	N/A		
C101877	Total Aluminum (Al)	2025/09/27	NC	75 - 125	102	80 - 120	<100	mg/kg	2.1	40	89	70 - 130
C101877	Total Antimony (Sb)	2025/09/27	106	75 - 125	104	80 - 120	<0.10	mg/kg	15	30	100	70 - 130
C101877	Total Arsenic (As)	2025/09/27	113	75 - 125	104	80 - 120	<0.20	mg/kg	2.7	30	80	70 - 130
C101877	Total Barium (Ba)	2025/09/27	138 (1)	75 - 125	105	80 - 120	<0.20	mg/kg	4.4	40	90	70 - 130
C101877	Total Beryllium (Be)	2025/09/27	102	75 - 125	100	80 - 120	<0.20	mg/kg	0.27	30	93	70 - 130
C101877	Total Bismuth (Bi)	2025/09/27	106	75 - 125	99	80 - 120	<0.10	mg/kg	3.2	30		
C101877	Total Boron (B)	2025/09/27	91	75 - 125	97	80 - 120	<1.0	mg/kg	11	30		
C101877	Total Cadmium (Cd)	2025/09/27	110	75 - 125	103	80 - 120	<0.050	mg/kg	4.1	30	96	70 - 130
C101877	Total Calcium (Ca)	2025/09/27	NC	75 - 125	102	80 - 120	<100	mg/kg	7.4	30	85	70 - 130
C101877	Total Chromium (Cr)	2025/09/27	114	75 - 125	102	80 - 120	<0.50	mg/kg	0.97	30	94	70 - 130
C101877	Total Cobalt (Co)	2025/09/27	109	75 - 125	106	80 - 120	<0.10	mg/kg	2.5	30	90	70 - 130
C101877	Total Copper (Cu)	2025/09/27	108	75 - 125	102	80 - 120	<0.50	mg/kg	2.0	30	88	70 - 130
C101877	Total Iron (Fe)	2025/09/27	NC	75 - 125	102	80 - 120	<100	mg/kg	0.80	30	87	70 - 130
C101877	Total Lead (Pb)	2025/09/27	113	75 - 125	103	80 - 120	<0.10	mg/kg	3.0	40	94	70 - 130
C101877	Total Lithium (Li)	2025/09/27	106	75 - 125	102	80 - 120	<0.50	mg/kg	0.67	30	90	70 - 130
C101877	Total Magnesium (Mg)	2025/09/27	NC	75 - 125	100	80 - 120	<100	mg/kg	0.49	30	88	70 - 130
C101877	Total Manganese (Mn)	2025/09/27	NC	75 - 125	102	80 - 120	<0.20	mg/kg	0.19	30	89	70 - 130
C101877	Total Mercury (Hg)	2025/09/27	100	75 - 125	94	75 - 125	<0.050	mg/kg	6.1	40	76	70 - 130
C101877	Total Molybdenum (Mo)	2025/09/27	115	75 - 125	98	80 - 120	<0.10	mg/kg	0.42	40	82	70 - 130
C101877	Total Nickel (Ni)	2025/09/27	108	75 - 125	102	80 - 120	<0.50	mg/kg	1.9	30	89	70 - 130
C101877	Total Phosphorus (P)	2025/09/27	99	75 - 125	98	80 - 120	<10	mg/kg	2.0	30	93	70 - 130
C101877	Total Potassium (K)	2025/09/27	274 (1)	75 - 125	100	80 - 120	<100	mg/kg	3.8	40	82	70 - 130
C101877	Total Selenium (Se)	2025/09/27	113	75 - 125	107	80 - 120	<0.50	mg/kg	5.8	30		
C101877	Total Silver (Ag)	2025/09/27	101	75 - 125	94	80 - 120	<0.050	mg/kg	1.8	40	124	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C101877	Total Sodium (Na)	2025/09/27	99	75 - 125	101	80 - 120	<100	mg/kg	8.8	40	82	70 - 130
C101877	Total Strontium (Sr)	2025/09/27	122	75 - 125	103	80 - 120	<0.10	mg/kg	4.1	40	85	70 - 130
C101877	Total Thallium (Tl)	2025/09/27	107	75 - 125	100	80 - 120	<0.050	mg/kg	2.8	30	93	70 - 130
C101877	Total Tin (Sn)	2025/09/27	111	75 - 125	103	80 - 120	<0.10	mg/kg	20	40	88	70 - 130
C101877	Total Titanium (Ti)	2025/09/27	157 (1)	75 - 125	101	80 - 120	<1.0	mg/kg	0.032	40		
C101877	Total Tungsten (W)	2025/09/27	91	75 - 125	101	80 - 120	<0.50	mg/kg	NC	40		
C101877	Total Uranium (U)	2025/09/27	110	75 - 125	101	80 - 120	<0.050	mg/kg	2.3	30	88	70 - 130
C101877	Total Vanadium (V)	2025/09/27	123	75 - 125	100	80 - 120	<1.0	mg/kg	2.4	30	90	70 - 130
C101877	Total Zinc (Zn)	2025/09/27	112	75 - 125	102	80 - 120	<1.0	mg/kg	2.9	30	88	70 - 130
C101877	Total Zirconium (Zr)	2025/09/27	122	75 - 125	102	80 - 120	<0.50	mg/kg	3.5	40		
C101884	Soluble (2:1) pH	2025/09/26			100	97 - 103			0.12	N/A		
C101889	Total Aluminum (Al)	2025/09/27	NC	75 - 125	93	80 - 120	<100	mg/kg	29	40	102	70 - 130
C101889	Total Antimony (Sb)	2025/09/27	82	75 - 125	92	80 - 120	<0.10	mg/kg	NC	30	90	70 - 130
C101889	Total Arsenic (As)	2025/09/27	79	75 - 125	90	80 - 120	<0.20	mg/kg	49 (1)	30	82	70 - 130
C101889	Total Barium (Ba)	2025/09/27	87	75 - 125	94	80 - 120	<0.20	mg/kg	28	40	92	70 - 130
C101889	Total Beryllium (Be)	2025/09/27	78	75 - 125	89	80 - 120	<0.20	mg/kg	NC	30	99	70 - 130
C101889	Total Bismuth (Bi)	2025/09/27	76	75 - 125	86	80 - 120	<0.10	mg/kg	NC	30		
C101889	Total Boron (B)	2025/09/27	79	75 - 125	89	80 - 120	<1.0	mg/kg	NC	30		
C101889	Total Cadmium (Cd)	2025/09/27	79	75 - 125	91	80 - 120	<0.050	mg/kg	4.3	30	101	70 - 130
C101889	Total Calcium (Ca)	2025/09/27	NC	75 - 125	92	80 - 120	<100	mg/kg	5.2	30	88	70 - 130
C101889	Total Chromium (Cr)	2025/09/27	79	75 - 125	91	80 - 120	<0.50	mg/kg	62 (1)	30	99	70 - 130
C101889	Total Cobalt (Co)	2025/09/27	78	75 - 125	96	80 - 120	<0.10	mg/kg	33 (1)	30	97	70 - 130
C101889	Total Copper (Cu)	2025/09/27	78	75 - 125	90	80 - 120	<0.50	mg/kg	26	30	91	70 - 130
C101889	Total Iron (Fe)	2025/09/27	NC	75 - 125	91	80 - 120	<100	mg/kg	80 (1)	30	91	70 - 130
C101889	Total Lead (Pb)	2025/09/27	81	75 - 125	92	80 - 120	<0.10	mg/kg	8.5	40	96	70 - 130
C101889	Total Lithium (Li)	2025/09/27	79	75 - 125	91	80 - 120	<0.50	mg/kg	26	30	93	70 - 130
C101889	Total Magnesium (Mg)	2025/09/27	NC	75 - 125	88	80 - 120	<100	mg/kg	6.2	30	93	70 - 130
C101889	Total Manganese (Mn)	2025/09/27	NC	75 - 125	91	80 - 120	<0.20	mg/kg	9.8	30	93	70 - 130
C101889	Total Mercury (Hg)	2025/09/27	76	75 - 125	84	75 - 125	<0.050	mg/kg	NC	40	61 (2)	70 - 130
C101889	Total Molybdenum (Mo)	2025/09/27	80	75 - 125	88	80 - 120	<0.10	mg/kg	80 (1)	40	97	70 - 130
C101889	Total Nickel (Ni)	2025/09/27	77	75 - 125	89	80 - 120	<0.50	mg/kg	9.3	30	97	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C101889	Total Phosphorus (P)	2025/09/27	76	75 - 125	91	80 - 120	<10	mg/kg	28	30	88	70 - 130
C101889	Total Potassium (K)	2025/09/27	80	75 - 125	89	80 - 120	<100	mg/kg	30	40	87	70 - 130
C101889	Total Selenium (Se)	2025/09/27	82	75 - 125	95	80 - 120	<0.50	mg/kg	NC	30		
C101889	Total Silver (Ag)	2025/09/27	73 (1)	75 - 125	83	80 - 120	<0.050	mg/kg	13	40	105	70 - 130
C101889	Total Sodium (Na)	2025/09/27	88	75 - 125	93	80 - 120	<100	mg/kg	31	40	88	70 - 130
C101889	Total Strontium (Sr)	2025/09/27	79	75 - 125	89	80 - 120	<0.10	mg/kg	7.2	40	89	70 - 130
C101889	Total Thallium (Tl)	2025/09/27	77	75 - 125	87	80 - 120	<0.050	mg/kg	21	30	97	70 - 130
C101889	Total Tin (Sn)	2025/09/27	81	75 - 125	90	80 - 120	<0.10	mg/kg	9.5	40	95	70 - 130
C101889	Total Titanium (Ti)	2025/09/27	NC	75 - 125	87	80 - 120	<1.0	mg/kg	15	40		
C101889	Total Tungsten (W)	2025/09/27	79	75 - 125	91	80 - 120	<0.50	mg/kg	NC	40		
C101889	Total Uranium (U)	2025/09/27	80	75 - 125	91	80 - 120	<0.050	mg/kg	7.0	30	98	70 - 130
C101889	Total Vanadium (V)	2025/09/27	77	75 - 125	91	80 - 120	<1.0	mg/kg	98 (1)	30	93	70 - 130
C101889	Total Zinc (Zn)	2025/09/27	76	75 - 125	90	80 - 120	<1.0	mg/kg	13	30	92	70 - 130
C101889	Total Zirconium (Zr)	2025/09/27	89	75 - 125	91	80 - 120	<0.50	mg/kg	23	40		
C101906	Soluble (2:1) pH	2025/09/26			99	97 - 103			0.13	N/A		
C101971	% sand by hydrometer	2025/09/27							0	35	95	90 - 110
C101971	% silt by hydrometer	2025/09/27							0	35		
C101971	Clay Content	2025/09/27							0	35		
C104160	% sand by hydrometer	2025/09/29							0	35	102	90 - 110
C104160	% silt by hydrometer	2025/09/29							NC	35		
C104160	Clay Content	2025/09/29							NC	35		
C107998	Total Organic Carbon (C)	2025/10/02			100	80 - 120	<0.050	%	9.4	20	102	75 - 125
C109886	Total Aluminum (Al)	2025/10/03	NC	75 - 125	99	80 - 120	<100	mg/kg	3.0	40	102	70 - 130
C109886	Total Antimony (Sb)	2025/10/03	97	75 - 125	101	80 - 120	<0.10	mg/kg	NC	30	103	70 - 130
C109886	Total Arsenic (As)	2025/10/03	100	75 - 125	99	80 - 120	<0.20	mg/kg	1.3	30	96	70 - 130
C109886	Total Barium (Ba)	2025/10/03	104	75 - 125	101	80 - 120	<0.20	mg/kg	2.8	40	103	70 - 130
C109886	Total Beryllium (Be)	2025/10/03	98	75 - 125	98	80 - 120	<0.20	mg/kg	NC	30	100	70 - 130
C109886	Total Bismuth (Bi)	2025/10/03	96	75 - 125	98	80 - 120	<0.10	mg/kg	NC	30		
C109886	Total Boron (B)	2025/10/03	98	75 - 125	101	80 - 120	<1.0	mg/kg	NC	30		
C109886	Total Cadmium (Cd)	2025/10/03	100	75 - 125	102	80 - 120	<0.050	mg/kg	NC	30	104	70 - 130
C109886	Total Calcium (Ca)	2025/10/03	NC	75 - 125	100	80 - 120	<100	mg/kg	0.35	30	97	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C109886	Total Chromium (Cr)	2025/10/03	101	75 - 125	102	80 - 120	<0.50	mg/kg	3.6	30	109	70 - 130
C109886	Total Cobalt (Co)	2025/10/03	102	75 - 125	101	80 - 120	<0.10	mg/kg	4.7	30	105	70 - 130
C109886	Total Copper (Cu)	2025/10/03	102	75 - 125	101	80 - 120	<0.50	mg/kg	4.1	30	101	70 - 130
C109886	Total Iron (Fe)	2025/10/03	NC	75 - 125	100	80 - 120	<100	mg/kg	2.7	30	100	70 - 130
C109886	Total Lead (Pb)	2025/10/03	99	75 - 125	100	80 - 120	<0.10	mg/kg	0.049	40	103	70 - 130
C109886	Total Lithium (Li)	2025/10/03	96	75 - 125	98	80 - 120	<0.50	mg/kg	1.9	30	107	70 - 130
C109886	Total Magnesium (Mg)	2025/10/03	NC	75 - 125	101	80 - 120	<100	mg/kg	2.5	30	102	70 - 130
C109886	Total Manganese (Mn)	2025/10/03	108	75 - 125	102	80 - 120	<0.20	mg/kg	2.1	30	104	70 - 130
C109886	Total Mercury (Hg)	2025/10/03	96	75 - 125	98	75 - 125	<0.050	mg/kg	NC	40	84	70 - 130
C109886	Total Molybdenum (Mo)	2025/10/03	95	75 - 125	98	80 - 120	<0.10	mg/kg	0.41	40	102	70 - 130
C109886	Total Nickel (Ni)	2025/10/03	101	75 - 125	101	80 - 120	<0.50	mg/kg	3.6	30	105	70 - 130
C109886	Total Phosphorus (P)	2025/10/03	102	75 - 125	102	80 - 120	<10	mg/kg	3.9	30	107	70 - 130
C109886	Total Potassium (K)	2025/10/03	117	75 - 125	104	80 - 120	<100	mg/kg	1.8	40	102	70 - 130
C109886	Total Selenium (Se)	2025/10/03	101	75 - 125	102	80 - 120	<0.50	mg/kg	NC	30		
C109886	Total Silver (Ag)	2025/10/03	75	75 - 125	97	80 - 120	<0.050	mg/kg	NC	40	70	70 - 130
C109886	Total Sodium (Na)	2025/10/03	129 (1)	75 - 125	100	80 - 120	<100	mg/kg			101	70 - 130
C109886	Total Strontium (Sr)	2025/10/03	107	75 - 125	101	80 - 120	<0.10	mg/kg	0.47	40	98	70 - 130
C109886	Total Thallium (Tl)	2025/10/03	97	75 - 125	99	80 - 120	<0.050	mg/kg	NC	30	102	70 - 130
C109886	Total Tin (Sn)	2025/10/03	99	75 - 125	100	80 - 120	<0.10	mg/kg	6.9	40	104	70 - 130
C109886	Total Titanium (Ti)	2025/10/03	NC	75 - 125	99	80 - 120	<1.0	mg/kg	2.9	40		
C109886	Total Tungsten (W)	2025/10/03	96	75 - 125	102	80 - 120	<0.50	mg/kg	NC	40		
C109886	Total Uranium (U)	2025/10/03	95	75 - 125	96	80 - 120	<0.050	mg/kg	2.3	30	102	70 - 130
C109886	Total Vanadium (V)	2025/10/03	102	75 - 125	101	80 - 120	<1.0	mg/kg	2.8	30	103	70 - 130
C109886	Total Zinc (Zn)	2025/10/03	99	75 - 125	100	80 - 120	<1.0	mg/kg	4.8	30	100	70 - 130
C109886	Total Zirconium (Zr)	2025/10/03	108	75 - 125	102	80 - 120	<0.50	mg/kg	1.6	40		
C109891	Soluble (2:1) pH	2025/10/03			99	97 - 103			0	N/A		
C109999	Total Organic Carbon (C)	2025/10/03			100	80 - 120	<0.050	%	5.7	20	101	75 - 125
C110368	Total Sulphur (S)	2025/10/03			95	80 - 120	<0.06	%	NC	30	99	75 - 125
C110412	Total Sulphur (S)	2025/10/04			96	80 - 120	<0.06	%			100	75 - 125
C110948	Total Sulphur (S)	2025/10/04			98	80 - 120	<0.06	%	NC	30	101	75 - 125
C112462	Total Sulphur (S)	2025/10/06			101	80 - 120	<0.06	%	NC	30	99	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
C112562	Total Organic Carbon (C)	2025/10/06			98	80 - 120	<0.050	%	2.8	20	99	75 - 125

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Reference outside acceptance criteria - re-analysis yields similar results.

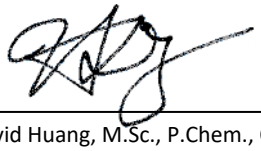
Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C580607
Report Date: 2025/10/06

SLR CONSULTING (CANADA) LTD
Client Project #: 234.030071.00002
Site Location: TULSEQUAH CHIEF, BC
Your P.O. #: WHR438
Sampler Initials: ER

VALIDATION SIGNATURE PAGE

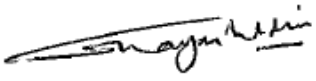
The analytical data and all QC contained in this report were reviewed and validated by:



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Mauro Oselin, P.Chem., QP, Scientific Specialist



Bureau Veritas Certified by Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

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Custody Tracking Form SED

W114378-H

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: SW24-7-1
Last Sample: W10/TUL-00-5
Sample Count: 39

Relinquished By				Received By			
ÉlioNERoy		Date	25/09/22	Emmanuel Salido	Emmanuel Salido	Date	2025/09/23
		Time (24 HR)	1105			Time (24 HR)	12:30
		Date				Date	
		Time (24 HR)				Time (24 HR)	
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print): ER/BC

of Coolers/Pkgs: 3

Immediate Test ☐ Rush ☐ Micro ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	Y	6	4	7
Y	Y	Y	7	7	7
Y	Y	Y	10	10	8

RECEIVED IN WHITEHORSE
BY: MDuncan@1105
2025-09-22

ICE/YES CSIND

TEMP: ~~See Temp Sheet~~ MDC

10	10	10
9	9	13
10	10	10

EWH-2025-09-061

COR FCD-00383/5

Page 1 of 1

C580607
2025/09/22 11:05

eCOC: W114378

Project Information:	C580607
Job Received:	2025/09/22 11:05
Expected TAT:	Standard TAT
Expected Arrival:	2025/09/23
Submitted By:	Eliane Roy
Submitted To:	Burnaby ENV: 4606 Canada Way

Invoice Information

Attn: Irene Tuite
SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse , YT , Y1A 1N2
Email to:
irene.tuite@pecg.ca

Report Information

Attn: Irene Tuite
SLR CONSULTING (CANADA) LTD
6131 6th Avenue
Whitehorse , YT , Y1A 1N2
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irene.tuite@pecg.ca
eroy@slrconsulting.com
diana.gawol@slrconsulting.com

Project Information

Quote #:	C40429
PO/AFE#:	WHR438
Project #:	234.030071.00002
Site Location:	TULSEQUAH CHIEF, BC

Analytical Summary

A: Standard TAT

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	CSR/CCME Metals in Soil with Hg	Sulphur via Combustion	BC total organic carbon LECO method	Texture by Hydrometer (Sand, Silt, Clay)
SW24-7-1	1	2025/09/15 15:30	SEDIMENT	3	A	A	A	A
SW24-7-2	2	2025/09/15 15:45	SEDIMENT	3	A	A	A	A
SW24-7-3	3	2025/09/15 16:00	SEDIMENT	3	A	A	A	A
SW24-7-4	4	2025/09/15 16:10	SEDIMENT	3	A	A	A	A
SW24-7-5	5	2025/09/15 16:20	SEDIMENT	3	A	A	A	A
SW24-7-5-SPLIT	6	2025/09/15 16:20	SEDIMENT	3	A	A	A	A
TUL-09/W51-1	7	2025/09/16 13:10	SEDIMENT	3	A	A	A	A
TUL-09/W51-2	8	2025/09/16 13:20	SEDIMENT	3	A	A	A	A
TUL-09/W51-3	9	2025/09/16 13:35	SEDIMENT	3	A	A	A	A
TUL-09/W51-4	10	2025/09/16 13:45	SEDIMENT	3	A	A	A	A
TUL-09/W51-5	11	2025/09/16 13:55	SEDIMENT	3	A	A	A	A
SW16-8-1	12	2025/09/16 16:15	SEDIMENT	3	A	A	A	A
SW16-8-2	13	2025/09/16 16:20	SEDIMENT	3	A	A	A	A
SW16-8-3	14	2025/09/16 16:30	SEDIMENT	3	A	A	A	A
SW16-8-4	15	2025/09/16 16:50	SEDIMENT	3	A	A	A	A
SW16-8-5	16	2025/09/16 17:00	SEDIMENT	3	A	A	A	A
W11-1	17	2025/09/17 12:50	SEDIMENT	3	A	A	A	A

eCOC: W114378

Project Information:	C580607
Job Received:	2025/09/22 11:05
Expected TAT:	Standard TAT
Expected Arrival:	2025/09/23
Submitted By:	Eliane Roy
Submitted To:	Burnaby ENV: 4606 Canada Way

A: Standard TAT

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	CSR/CCME Metals in Soil with Hg	Sulphur via Combustion	BC total organic carbon LECO method	Texture by Hydrometer (Sand, Silt, Clay)
W11-2	18	2025/09/17 13:15	SEDIMENT	3	A	A	A	A
W11-3	19	2025/09/17 12:55	SEDIMENT	3	A	A	A	A
W11-4	20	2025/09/17 13:45	SEDIMENT	3	A	A	A	A
W11-5	21	2025/09/17 13:00	SEDIMENT	3	A	A	A	A
W11-5-SPLIT	22	2025/09/17 13:00	SEDIMENT	3	A	A	A	A
SW24-11-1	23	2025/09/17 14:15	SEDIMENT	3	A	A	A	A
SW24-11-2	24	2025/09/17 14:15	SEDIMENT	3	A	A	A	A
SW24-11-3	25	2025/09/17 14:25	SEDIMENT	3	A	A	A	A
SW24-11-4	26	2025/09/17 14:50	SEDIMENT	3	A	A	A	A
SW24-11-5	27	2025/09/17 14:30	SEDIMENT	3	A	A	A	A
SW24-11-5-SPLIT	28	2025/09/17 14:30	SEDIMENT	3	A	A	A	A
TUL-06-1	29	2025/09/17 17:30	SEDIMENT	3	A	A	A	A
TUL-06-2	30	2025/09/17 18:20	SEDIMENT	3	A	A	A	A
TUL-06-3	31	2025/09/17 18:30	SEDIMENT	3	A	A	A	A
TUL-06-3-SPLIT	32	2025/09/17 18:30	SEDIMENT	3	A	A	A	A
TUL-06-4	33	2025/09/17 17:40	SEDIMENT	3	A	A	A	A
TUL-06-5	34	2025/09/17 17:50	SEDIMENT	3	A	A	A	A
W10/TUL-00-1	35	2025/09/19 11:20	SEDIMENT	3	A	A	A	A
W10/TUL-00-2	36	2025/09/19 11:25	SEDIMENT	3	A	A	A	A
W10/TUL-00-3	37	2025/09/19 11:40	SEDIMENT	3	A	A	A	A
W10/TUL-00-4	38	2025/09/19 11:50	SEDIMENT	3	A	A	A	A
W10/TUL-00-5	39	2025/09/19 12:15	SEDIMENT	3	A	A	A	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

eCOC: W114378

Project Information:	C580607
Job Received:	2025/09/22 11:05
Expected TAT:	Standard TAT
Expected Arrival:	2025/09/23
Submitted By:	Eliane Roy
Submitted To:	Burnaby ENV: 4606 Canada Way

Submission Information

# of Samples:	39
Details:	"Dry & grind" for all.

Appendix D2: June 2025 Sediment Chemistry Data

Analyte	RDL	Units	TUL-00									TUL-06								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.18	0.27	0.17	0.18	0.098	0.2	0.2	0.1	30.4	0.55	0.4	0.47	0.4	0.39	0.4	0.4	0.1	13.8
pH (lab)		**pH Units**	7.4	7.38	7.21	7.1	6.77	----	----	----	----	7.44	7.83	7.49	7.51	7.67	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	<0.06	<0.08	<0.06	<0.06	<0.06	0.1	0.1	0.0	12.5	0.08	0.27	0.15	0.07	0.07	0.1	0.1	0.1	60.2
Total Aluminum (Al)	**100**	**mg/kg dw**	11300	10400	8170	7210	7300	8876	8170	1671	18.8	7450	6790	7930	9370	9850	8278	7930	1156	14.0
Total Antimony (Sb)	**0.1**	**mg/kg dw**	0.23	0.29	0.21	0.24	0.16	0.2	0.2	0.04	18.7	0.25	0.24	0.24	0.32	0.29	0.3	0.3	0.03	11.9
Total Arsenic (As)	**0.2**	**mg/kg dw**	4.85	7.26	4.58	4.22	3.28	4.8	4.6	1.3	27.3	4.52	5.17	4.7	9.23	8.06	6.3	5.2	1.9	30.5
Total Barium (Ba)	**0.2**	**mg/kg dw**	98.6	109	71.1	69.9	62.3	82.2	71.1	18.2	22.2	146	142	144	183	177	158.4	146.0	17.8	11.2
Total Beryllium (Be)	**0.2**	**mg/kg dw**	0.22	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.01	3.9	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.0	0.0
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	<0.1	0.4	0.12	1.23	<0.1	0.2	0.1	0.1	70.7	0.12	0.11	0.13	0.16	0.13	0.1	0.1	0.02	12.9
Total Boron (B)	**1**	**mg/kg dw**	<1	<1	<1	<1	1.7	1.1	1.0	0.3	24.6	2.2	1.3	1.1	<1	<1	1.3	1.1	0.5	34.4
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	0.136	0.147	0.132	0.118	0.114	0.1	0.1	0.01	9.3	0.243	0.225	0.199	0.299	0.243	0.2	0.2	0.03	13.6
Total Calcium (Ca)	**100**	**mg/kg dw**	4120	3230	2880	2630	2630	3098	2880	556	18.0	3010	3300	2940	3700	3540	3298	3300	294	8.9
Total Chromium (Cr)	**0.5**	**mg/kg dw**	24.6	21.8	15.8	15.5	16.3	18.8	16.3	3.7	19.7	27.7	30.1	33.5	37.5	34.8	32.7	33.5	3.5	10.6
Total Cobalt (Co)	**0.1**	**mg/kg dw**	8.71	7.67	6.48	5.81	5.59	6.9	6.5	1.2	17.2	9.97	11.7	10.5	13.7	11.8	11.5	11.7	1.3	11.2
Total Copper (Cu)	**0.5**	**mg/kg dw**	22.2	20.5	21.3	17	19	20.0	20.5	1.8	9.2	40	51.5	44.1	63.1	51.4	50.0	51.4	7.9	15.8
Total Iron (Fe)	**100**	**mg/kg dw**	21300	21600	17300	14900	15400	18100	17300	2852	15.8	19200	19300	20400	26500	23700	21820	20400	2852	13.1
Total Lead (Pb)	**0.1**	**mg/kg dw**	4.4	5.94	4.09	4.32	3.34	4.4	4.3	0.8	19.2	4.28	3.57	4.21	5.43	5.32	4.6	4.3	0.7	15.5
Total Lithium (Li)	**0.5**	**mg/kg dw**	11.2	10.7	8.87	7.24	8.82	9.4	8.9	1.4	15.3	6.56	6.35	6.94	8.39	9.24	7.5	6.9	1.1	15.0
Total Magnesium (Mg)	**100**	**mg/kg dw**	9060	8040	5910	5410	5270	6738	5910	1529	22.7	6110	6210	6610	8000	8150	7016	6610	882	12.6
Total Manganese (Mn)	**0.2**	**mg/kg dw**	378	383	343	280	286	334	343	43.9	13.1	353	332	363	451	455	391	363	51.8	13.2
Total Mercury (Hg)	**0.05**	**mg/kg dw**	<0.05	<0.05	<0.05	<0.05	0.07	0.1	0.1	0.01	14.8	0.11	0.066	<0.05	<0.05	<0.05	0.1	0.1	0.02	35.6
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	1.15	1.29	0.95	0.94	1.25	1.1	1.2	0.1	13.2	2.11	2.51	2.43	3.17	2.79	2.6	2.5	0.4	13.7
Total Nickel (Ni)	**0.5**	**mg/kg dw**	20.7	16.4	14.7	13.4	13	15.6	14.7	2.8	17.9	30.9	39.2	35	44.6	37	37.3	37.0	4.5	12.2
Total Phosphorus (P)	**10**	**mg/kg dw**	597	662	435	307	453	537	525	95.8	17.8	515	641	576	797	634	633	634	94.0	14.9
Total Potassium (K)	**100**	**mg/kg dw**	1780	2000	1400	1270	1320	1625	1590	278	17.1	1250	1080	1230	1360	1530	1290	1250	150	11.6
Total Selenium (Se)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0	0.5	0.69	0.51	0.68	<0.5	0.6	0.5	0.1	15.5
Total Silver (Ag)	**0.05**	**mg/kg dw**	0.085	0.112	0.07	0.061	0.059	0.1	0.1	0.02	25.3	0.093	0.102	0.107	0.135	0.129	0.1	0.1	0.02	14.2
Total Sodium (Na)	**100**	**mg/kg dw**	277	181	217	185	169	206	185	39.0	18.9	127	<100	114	128	153	124	127	17.6	14.1
Total Strontium (Sr)	**0.1**	**mg/kg dw**	20.7	16.9	16.6	15.3	15	16.9	16.6	2.0	12.0	13.6	13.1	13.1	15.6	16.7	14.4	13.6	1.5	10.2
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.112	0.13	0.099	0.077	0.085	0.1	0.1	0.02	18.8	0.103	0.086	0.096	0.111	0.106	0.1	0.1	0.01	8.7
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.22	0.28	0.19	0.21	0.2	0.2	0.2	0.03	14.4	0.33	0.2	0.21	0.26	0.26	0.3	0.3	0.05	18.3
Total Titanium (Ti)	**1**	**mg/kg dw**	599	590	445	452	427	503	452	75.5	15.0	493	416	467	541	598	503	493	62.3	12.4
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0	0.89	<0.5	<0.5	<0.5	<0.5	0.6	0.5	0.2	27.0
Total Uranium (U)	**0.05**	**mg/kg dw**	1.04	1.28	0.853	1.44	0.823	1.0	0.9	0.2	18.2	0.95	0.892	1.58	1.22	1.09	1.1	1.1	0.2	21.4
Total Vanadium (V)	**1**	**mg/kg dw**	46.6	46.3	33.9	31.2	32.8	38.2	33.9	6.8	17.9	37.4	34.1	40.8	55.3	46.1	42.7	40.8	7.4	17.4
Total Zinc (Zn)	**1**	**mg/kg dw**	49.1	51.1	41.9	37.4	36.3	43.2	41.9	6.0	13.9	50.3	47.7	51.1	63.9	63.4	55.3	51.1	6.9	12.5
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	0.79	0.83	0.6	0.76	0.65	0.7	0.8	0.1	12.0	0.5	<0.5	<0.5	<0.5	0.56	0.5	0.5	0.02	4.7
Clay Content	**2**	**%**	<2	<2	<2	2.6	<2	2.1	2.0	0.2	11.3	<2	2.1	3.9	4.6	4.1	3.3	3.9	1.1	32.3
Sand by hydrometer	**2**	**%**	96	95	95	95	96	95.4	95.0	0.5	0.5	67	62	68	57	72	65.2	67.0	5.2	8.0
Silt by hydrometer	**2**	**%**	3.2	3.5	3.5	2.4	3	3.1	3.2	0.4	13.0	32	36	28	38	24	31.6	32.0	5.1	16.2

Appendix D2: September 2025 Sediment Chemistry Data

Analyte	RDL	Units	TUL-00									TUL-06								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.092	0.13	0.11	0.087	0.071	0.1	0.1	0.02	20.7	0.36	0.48	0.88	0.14	0.18	0.4	0.4	0.3	65.2
pH (lab)		**pH Units**	7.42	7.35	7.53	7.48	7.48	----	----	----	----	8.22	8.22	8.06	7.43	8.13	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	<0.06	<0.06	<0.06	<0.06	<0.06	0.1	0.1	0.0	0.0	0.13	0.2	0.23	<0.06	<0.06	0.1	0.1	0.1	51.5
Total Aluminum (Al)	**100**	**mg/kg dw**	6460	5450	7120	7060	6680	6554	6680	603	9.2	9110	7740	7070	6980	7780	7736	7740	762	9.9
Total Antimony (Sb)	**0.1**	**mg/kg dw**	0.11	<0.1	0.14	0.17	0.14	0.1	0.1	0.02	18.8	0.25	0.21	0.2	0.14	0.25	0.2	0.2	0.04	19.3
Total Arsenic (As)	**0.2**	**mg/kg dw**	2.97	1.77	3.58	2.84	2.7	2.8	2.8	0.6	21.1	4.23	3.62	4.76	2.47	3.11	3.6	3.6	0.8	22.2
Total Barium (Ba)	**0.2**	**mg/kg dw**	59.8	35.2	56.2	64.1	64.4	55.9	59.8	10.8	19.3	116	137	116	65.9	80	103	116	26.1	25.3
Total Beryllium (Be)	**0.2**	**mg/kg dw**	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.0	0.0	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.0	0.0
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	0.12	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.01	7.7	<0.1	<0.1	0.1	<0.1	<0.1	0.1	0.1	0.0	0.0
Total Boron (B)	**1**	**mg/kg dw**	<1	<1	<1	<1	1.8	1.2	1.0	0.3	27.6	3.1	1.9	1.4	<1	<1	1.7	1.4	0.8	46.6
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	0.084	0.08	0.102	0.086	0.09	0.1	0.1	0.01	8.5	0.194	0.19	0.17	0.107	0.098	0.2	0.2	0.04	27.1
Total Calcium (Ca)	**100**	**mg/kg dw**	2540	2230	2700	3160	2540	2634	2540	304	11.5	4190	4410	3550	2840	2900	3578	3550	644	18.0
Total Chromium (Cr)	**0.5**	**mg/kg dw**	12.5	5.99	13.5	16.8	14.3	12.6	13.5	3.6	28.6	36.9	26.3	28.5	15.2	20	25.4	26.3	7.4	29.3
Total Cobalt (Co)	**0.1**	**mg/kg dw**	5	4.04	4.95	5.57	5.01	4.9	5.0	0.5	10.0	9.63	9.35	10.6	4.79	6.07	8.1	9.4	2.2	27.8
Total Copper (Cu)	**0.5**	**mg/kg dw**	14.5	11.6	14.9	13.5	15.8	14.1	14.5	1.4	10.2	41.2	45.7	53	15.9	19.8	35.1	41.2	14.6	41.7
Total Iron (Fe)	**100**	**mg/kg dw**	14000	11900	14400	24300	14500	15820	14400	4344	27.5	18700	18200	17100	14400	16400	16960	17100	1513	8.9
Total Lead (Pb)	**0.1**	**mg/kg dw**	3.03	3.15	2.86	3.8	2.55	3.1	3.0	0.4	13.4	3.6	3.51	3.62	3.14	3.99	3.6	3.6	0.3	7.6
Total Lithium (Li)	**0.5**	**mg/kg dw**	7.34	6.19	7.62	7.4	7.1	7.1	7.3	0.5	7.0	8.97	8.38	6.96	7.15	8.17	7.9	8.2	0.8	9.6
Total Magnesium (Mg)	**100**	**mg/kg dw**	4640	3600	4930	5130	5040	4668	4930	559	12.0	7340	6700	6480	4890	5600	6202	6480	861	13.9
Total Manganese (Mn)	**0.2**	**mg/kg dw**	255	208	238	255	226	236	238	17.9	7.6	348	328	332	246	274	306	328	38.9	12.7
Total Mercury (Hg)	**0.05**	**mg/kg dw**	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.1	0.0	0.0	0.068	<0.05	<0.05	<0.05	<0.05	0.1	0.1	0.01	13.4
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	0.55	0.42	0.47	0.65	0.57	0.5	0.6	0.1	15.1	1.76	2	2.2	0.82	0.82	1.5	1.8	0.6	38.7
Total Nickel (Ni)	**0.5**	**mg/kg dw**	10.3	7.32	11	10.9	11.7	10.2	10.9	1.5	14.9	32.3	30.5	33.1	11.1	16	24.6	30.5	9.2	37.4
Total Phosphorus (P)	**10**	**mg/kg dw**	479	429	461	624	411	481	461	75.4	15.7	598	681	560	560	492	578	560	61.7	10.7
Total Potassium (K)	**100**	**mg/kg dw**	1140	940	1190	1360	1350	1196	1190	154	12.9	1160	1210	853	1170	1510	1181	1170	208	17.7
Total Selenium (Se)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0	0.51	<0.5	0.63	<0.5	<0.5	0.5	0.5	0.1	9.7
Total Silver (Ag)	**0.05**	**mg/kg dw**	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.1	0.0	0.0	0.061	0.074	0.073	<0.05	0.05	0.1	0.1	0.01	17.1
Total Sodium (Na)	**100**	**mg/kg dw**	123	<100	163	184	148	143.6	148.0	29.5	20.5	102	<100	<100	167	160	126	102	30.9	24.5
Total Strontium (Sr)	**0.1**	**mg/kg dw**	11.8	10.4	13.6	17.9	13.7	13.5	13.6	2.5	18.7	14.4	15.6	12.6	14.5	13.9	14.2	14.4	1.0	6.9
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.07	0.058	0.076	0.081	0.085	0.1	0.1	0.01	12.8	0.084	0.083	0.057	0.064	0.082	0.1	0.1	0.01	15.2
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.13	<0.1	0.12	0.14	<0.1	0.1	0.1	0.02	13.6	0.12	0.11	0.13	0.11	0.15	0.1	0.1	0.01	12.1
Total Titanium (Ti)	**1**	**mg/kg dw**	363	242	401	513	394	382.6	394.0	86.7	22.7	412	395	370	404	478	412	404	36.0	8.7
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0
Total Uranium (U)	**0.05**	**mg/kg dw**	0.706	0.616	0.851	0.702	0.793	0.7	0.7	0.1	11.1	0.835	0.759	0.79	2.07	0.736	1.0	0.8	0.5	49.8
Total Vanadium (V)	**1**	**mg/kg dw**	30.9	19.6	30.3	70.8	33.9	37.1	30.9	17.5	47.3	37.6	35.4	31	31.4	34.9	34.1	34.9	2.5	7.4
Total Zinc (Zn)	**1**	**mg/kg dw**	31.2	28.4	31.2	34.3	28.5	30.7	31.2	2.2	7.1	46.5	45.7	47.4	31.4	38	41.8	45.7	6.2	14.8
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	<0.5	0.51	0.57	0.73	<0.5	0.6	0.5	0.1	15.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0
Clay Content	**2**	**%**	<2	2.2	<2	<2	<2	2.0	2.0	0.1	3.9	2.7	5.1	4.1	2.7	4.3	3.8	4.1	0.9	25.0
Sand by hydrometer	**2**	**%**	99	98	98	98	98	98.2	98.0	0.4	0.4	73	54	70	97	87	76.2	73.0	14.8	19.4
Silt by hydrometer	**2**	**%**	<2	<2	<2	2	<2	2.0	2.0	0.0	0.0	24	41	26	<2	8.4	20.3	24.0	13.8	68.0

Appendix D2: June 2025 Sediment Chemistry Data

Analyte	RDL	Units	W11									SW24-11								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.38	0.59	0.5	0.68	0.38	0.5	0.5	0.1	23.2	0.38	0.59	0.5	0.68	0.38	0.5	0.5	0.1	23.2
pH (lab)		**pH Units**	6.92	7.79	8.31	8.25	6.75	----	----	----	----	8.41	8.37	8.35	8.29	8.33	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	<0.06	0.31	0.06	<0.06	<0.06	0.1	0.1	0.1	90.9	<0.06	<0.31	0.06	<0.06	<0.06	0.1	0.1	0.1	90.9
Total Aluminum (Al)	**100**	**mg/kg dw**	13200	11000	13200	12200	13000	12520	13000	845	6.7	11000	11200	11300	12800	13500	11960	11300	1001	8.4
Total Antimony (Sb)	**0.1**	**mg/kg dw**	1.45	1.44	3.27	4.14	1.59	2.4	1.6	1.1	47.1	2.65	3.52	2.73	2.84	3.63	3.1	2.8	0.4	13.5
Total Arsenic (As)	**0.2**	**mg/kg dw**	24.5	19.2	40	34.5	21.7	28.0	24.5	7.9	28.4	45.9	44.2	48.9	42.1	55	47.2	45.9	4.5	9.5
Total Barium (Ba)	**0.2**	**mg/kg dw**	80.1	106	200	162	81.3	126	106	47.5	37.7	96.5	115	113	125	137	117	115	13	11.5
Total Beryllium (Be)	**0.2**	**mg/kg dw**	0.41	0.34	0.42	0.4	0.33	0.4	0.4	0.04	9.8	0.42	0.47	0.39	0.49	0.48	0.5	0.5	0.04	8.5
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	0.13	0.12	0.21	0.19	0.12	0.2	0.1	0.04	24.8	0.21	0.15	0.17	0.18	0.22	0.2	0.2	0.03	13.9
Total Boron (B)	**1**	**mg/kg dw**	3.1	3	3.8	3.2	1.6	2.9	3.1	0.7	24.7	4.1	4.5	4.3	6.2	5.9	5.0	4.5	0.9	17.4
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	2.95	3.02	6.26	5.53	2.64	4.1	3.0	1.5	36.9	0.728	0.885	0.87	0.955	1.14	0.9	0.9	0.1	14.7
Total Calcium (Ca)	**100**	**mg/kg dw**	10600	13800	15100	14300	10300	12820	13800	1981	15.5	25400	27100	26700	28200	31300	27740	27100	1993	7.2
Total Chromium (Cr)	**0.5**	**mg/kg dw**	30.9	32.8	42.2	37	35.2	35.6	35.2	3.9	10.9	43.8	47.5	52	48.4	57	49.7	48.4	4.5	9.0
Total Cobalt (Co)	**0.1**	**mg/kg dw**	8.99	9.51	13.6	12	8.75	10.6	9.5	1.9	18.0	12.6	12.6	13.5	13.6	15.5	13.6	13.5	1.1	7.8
Total Copper (Cu)	**0.5**	**mg/kg dw**	1220	380	342	475	1240	731	475	409	56.0	39.2	41.9	60.7	44.4	63	49.8	44.4	10.0	20.0
Total Iron (Fe)	**100**	**mg/kg dw**	27300	25900	34000	31700	26900	29160	27300	3133	10.7	40900	41500	47300	37800	49100	43320	41500	4216	9.7
Total Lead (Pb)	**0.1**	**mg/kg dw**	28.6	11.5	36.1	26.8	46.9	30.0	28.6	11.6	38.8	11.4	8.51	9.97	9.54	12.5	10.4	10.0	1.4	13.6
Total Lithium (Li)	**0.5**	**mg/kg dw**	15.8	15.1	17.4	15.2	13.6	15.4	15.2	1.2	8.0	16.6	17.5	17.1	19.8	21	18.4	17.5	1.7	9.2
Total Magnesium (Mg)	**100**	**mg/kg dw**	9710	9260	11200	9980	9170	9864	9710	731	7.4	12100	12600	12600	13500	13900	12940	12600	659	5.1
Total Manganese (Mn)	**0.2**	**mg/kg dw**	425	458	608	542	387	484	458	80.4	16.6	566	587	623	616	697	618	616	44.6	7.2
Total Mercury (Hg)	**0.05**	**mg/kg dw**	0.138	0.062	0.097	0.072	<0.05	0.1	0.1	0.03	37.2	0.078	0.07	<0.05	0.211	0.213	0.1	0.1	0.1	58.0
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	4.18	4.18	5.98	4.52	3.36	4.4	4.2	0.9	19.3	4.79	4.83	5.51	7.98	7.07	6.0	5.5	1.3	21.1
Total Nickel (Ni)	**0.5**	**mg/kg dw**	36.6	39.6	63.8	53.6	38.4	46.4	39.6	10.6	22.8	61.6	67.9	68	78	87.6	73	68	9.1	12.6
Total Phosphorus (P)	**10**	**mg/kg dw**	730	735	801	744	693	741	735	34.8	4.7	876	910	850	849	934	884	876	33.5	3.8
Total Potassium (K)	**100**	**mg/kg dw**	1380	1320	1650	1550	1370	1454	1380	125	8.6	892	925	976	1070	1220	1017	976	118	11.6
Total Selenium (Se)	**0.5**	**mg/kg dw**	0.75	0.87	1.39	1.05	0.64	0.9	0.9	0.3	28.0	1.43	1.59	1.46	1.68	1.95	1.6	1.6	0.2	11.5
Total Silver (Ag)	**0.05**	**mg/kg dw**	0.169	0.115	0.311	0.346	0.426	0.3	0.3	0.1	42.0	0.178	0.368	0.167	0.229	0.257	0.2	0.2	0.1	30.1
Total Sodium (Na)	**100**	**mg/kg dw**	222	176	220	189	198	201	198	17.8	8.8	104	109	109	125	132	116	109	10.8	9.3
Total Strontium (Sr)	**0.1**	**mg/kg dw**	47.9	75.1	77.2	72.8	48.6	64.3	72.8	13.2	20.5	144	147	146	142	164	149	146	7.9	5.3
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.291	0.271	0.435	0.355	0.287	0.3	0.3	0.1	18.5	0.287	0.301	0.295	0.394	0.446	0.3	0.3	0.1	18.5
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.21	0.18	0.31	0.25	0.2	0.2	0.2	0.05	20.0	0.26	0.29	0.31	0.3	0.39	0.3	0.3	0.0	14.0
Total Titanium (Ti)	**1**	**mg/kg dw**	402	351	406	436	423	404	406	29.0	7.2	196	192	272	176	236	214	196	34.9	16.3
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0
Total Uranium (U)	**0.05**	**mg/kg dw**	1.98	1.24	1.56	1.77	2.23	1.8	1.8	0.3	19.4	0.762	0.927	2.5	0.932	1.14	1.3	0.9	0.6	50.7
Total Vanadium (V)	**1**	**mg/kg dw**	48.9	48	60.2	57.6	50.4	53.0	50.4	4.9	9.3	75	70.4	92.3	60.8	79.7	75.6	75.0	10.4	13.8
Total Zinc (Zn)	**1**	**mg/kg dw**	598	545	1300	1290	565	860	598	356	41.4	112	121	123	132	161	130	123	16.8	13.0
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	1.33	1.33	1.91	1.74	1.28	1.5	1.3	0.3	16.9	1.34	1.52	1.68	1.72	2.03	1.7	1.7	0.2	13.8
Clay Content	**2**	**%**	<2	<2	3.5	<2	<2	2.3	2.0	0.6	26.1	<2	<2	<2	<2	<2	2.0	2.0	0.0	0.0
Sand by hydrometer	**2**	**%**	97	96	94	92	96	95.0	96.0	1.8	1.9	95	95	94	97	96	95.4	95.0	1.0	1.1
Silt by hydrometer	**2**	**%**	2.7	3.9	2.4	6	4	3.8	3.9	1.3	33.4	3.3	2.9	4.9	2.1	3	3.2	3.0	0.9	28.4

Appendix D2: September 2025 Sediment Chemistry Data

Analyte	RDL	Units	W11									SW24-11								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.49	0.5	0.33	0.63	0.41	0.5	0.5	0.1	21.2	0.86	1.3	0.56	1.1	1.3	1.0	1.1	0.3	27.6
pH (lab)		**pH Units**	7.37	7.78	7.1	7.53	7.83	----	----	----	----	8.14	8.1	8.25	8.06	8.09	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	0.1	0.16	0.09	0.06	0.1	0.1	0.1	0.03	31.9	0.11	0.08	0.08	0.13	0.12	0.1	0.1	0.02	19.8
Total Aluminum (Al)	**100**	**mg/kg dw**	13800	11300	11100	15500	12400	12820	12400	1649	12.9	11700	14000	11500	13200	14300	12940	13200	1153	8.9
Total Antimony (Sb)	**0.1**	**mg/kg dw**	4.15	4.85	1.58	2.41	1.78	3.0	2.4	1.3	44.4	2.56	3.65	1.69	4	3.68	3.1	3.7	0.9	27.7
Total Arsenic (As)	**0.2**	**mg/kg dw**	51.5	48.8	19.9	46	30	39.2	46.0	12.2	31.1	45.2	63	33.9	66.4	66.3	55.0	63.0	13.1	23.9
Total Barium (Ba)	**0.2**	**mg/kg dw**	181	193	84	115	106	136	115	43.2	31.8	166	175	175	230	196	178	175	11.0	6.2
Total Beryllium (Be)	**0.2**	**mg/kg dw**	0.46	0.38	0.26	0.48	0.37	0.4	0.4	0.1	20.0	0.45	0.58	0.4	0.59	0.65	0.5	0.6	0.1	17.5
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	0.19	0.25	0.13	0.2	0.39	0.2	0.2	0.1	37.8	0.14	0.17	0.19	0.19	0.19	0.2	0.2	0.02	11.1
Total Boron (B)	**1**	**mg/kg dw**	6.8	5.3	2.9	4.6	4.3	4.8	4.6	1.3	26.7	6.9	7.5	4.6	8.6	12.1	7.9	7.5	2.5	30.9
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	5.63	3.95	2.52	6.8	4.38	4.7	4.4	1.5	31.4	0.854	1.25	0.633	1.22	1.28	1.0	1.2	0.3	24.7
Total Calcium (Ca)	**100**	**mg/kg dw**	7170	9380	8120	9330	10700	8940	9330	1204	13.5	21000	26800	15700	25700	27500	23340	25700	4443	19.0
Total Chromium (Cr)	**0.5**	**mg/kg dw**	34.2	35.3	27.3	35.5	32.6	33.0	34.2	3.0	9.2	38.2	45.1	41.2	42.7	48	43.0	42.7	3.3	7.8
Total Cobalt (Co)	**0.1**	**mg/kg dw**	10.2	10.5	7.69	11.1	9.95	9.9	10.2	1.2	11.8	12.7	18.1	11.9	17.5	18	15.6	17.5	2.7	17.6
Total Copper (Cu)	**0.5**	**mg/kg dw**	2470	1110	1380	3090	1630	1936	1630	735	38.0	43.4	62.7	39.7	55.4	71.3	54.5	55.4	11.8	21.6
Total Iron (Fe)	**100**	**mg/kg dw**	36800	38300	22700	29400	25500	30540	29400	6125	20.1	29900	36600	27800	35000	38800	33620	35000	4131	12.3
Total Lead (Pb)	**0.1**	**mg/kg dw**	102	99.8	44.9	59.1	32.1	67.6	59.1	28.5	42.2	9.53	12.7	8.91	13.2	13.4	11.5	12.7	1.9	16.7
Total Lithium (Li)	**0.5**	**mg/kg dw**	13.4	12.9	10.6	14.4	13.3	12.9	13.3	1.3	9.8	17.3	21.3	15.4	19.2	22.2	19.1	19.2	2.5	13.1
Total Magnesium (Mg)	**100**	**mg/kg dw**	8080	7930	7140	9340	8370	8172	8080	712	8.7	11200	13800	10200	12300	13800	12260	12300	1422	11.6
Total Manganese (Mn)	**0.2**	**mg/kg dw**	427	448	349	501	446	434	446	49.2	11.3	535	786	554	726	783	677	726	110	16.3
Total Mercury (Hg)	**0.05**	**mg/kg dw**	0.23	0.28	0.075	0.055	0.05	0.1	0.1	0.1	70.4	0.093	0.111	0.06	0.103	0.316	0.1	0.1	0.1	66.9
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	5.21	4.63	2.14	5.54	3.7	4.2	4.6	1.2	28.8	4.7	6.75	3.53	5.74	6.3	5.4	5.7	1.2	21.5
Total Nickel (Ni)	**0.5**	**mg/kg dw**	40.6	42.1	24.6	45	41.7	38.8	41.7	7.2	18.7	73.5	103	56	96.7	101	86.0	96.7	18.4	21.3
Total Phosphorus (P)	**10**	**mg/kg dw**	719	743	694	662	629	689	694	40.4	5.9	739	855	745	878	921	828	855	73.1	8.8
Total Potassium (K)	**100**	**mg/kg dw**	1090	1050	1020	1300	1200	1132	1090	104	9.2	1230	1330	1440	1520	1450	1363	1385	89.8	6.6
Total Selenium (Se)	**0.5**	**mg/kg dw**	1.11	1.19	<0.5	1.14	0.92	1.0	1.1	0.3	26.0	1.63	2.23	1.11	2.12	2.23	1.9	2.1	0.4	23.5
Total Silver (Ag)	**0.05**	**mg/kg dw**	0.484	0.716	0.16	0.18	0.137	0.3	0.2	0.2	68.1	0.156	0.182	0.135	0.181	0.214	0.2	0.2	0.03	15.4
Total Sodium (Na)	**100**	**mg/kg dw**	162	155	128	199	168	162	162	22.8	14.1	105	115	165	159	141	137	141	23.6	17.2
Total Strontium (Sr)	**0.1**	**mg/kg dw**	39.4	48.8	35.9	46.8	54.5	45.1	46.8	6.7	14.8	109	134	76.2	126	137	116	126	22.3	19.2
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.327	0.304	0.167	0.299	0.252	0.3	0.3	0.1	21.1	0.329	0.456	0.274	0.429	0.459	0.4	0.4	0.1	19.2
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.25	0.26	0.14	0.24	0.22	0.2	0.2	0.04	19.4	0.22	0.25	0.2	0.31	0.32	0.3	0.3	0.0	18.4
Total Titanium (Ti)	**1**	**mg/kg dw**	370	365	331	435	388	378	370	34.0	9.0	154	106	343	173	152	189	153	91.1	48.3
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0
Total Uranium (U)	**0.05**	**mg/kg dw**	3.69	1.97	1.81	4.12	2.26	2.8	2.3	0.9	34.2	0.858	1.07	0.965	1.13	1.3	1.1	1.1	0.1	14.1
Total Vanadium (V)	**1**	**mg/kg dw**	73.9	77	40.7	51	47.1	57.9	51.0	14.7	25.4	44.7	50.4	47.8	51.1	54.6	49.7	50.4	3.3	6.7
Total Zinc (Zn)	**1**	**mg/kg dw**	1450	853	624	1830	1240	1199	1240	427	35.6	120	161	96.5	146	167	138	146	26.4	19.1
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	1.09	1.03	0.64	1.1	1.02	1.0	1.0	0.2	17.5	1.3	1.63	1.26	1.61	1.54	1.5	1.5	0.2	10.7
Clay Content	**2**	**%**	<2	2.8	2.8	2.9	5.6	3.2	2.8	1.2	38.3	2.6	2.8	4.6	5.3	4.5	4.0	4.5	1.1	26.9
Sand by hydrometer	**2**	**%**	86	87	98	89	92	90.4	89.0	4.3	4.8	87	72	80	54	76	73.8	76.0	11.1	15.0
Silt by hydrometer	**2**	**%**	13	11	<2	8.2	2.5	7.3	8.2	4.4	60.4	10	25	16	41	20	22.4	20.0	10.5	47.0

Appendix D2: June 2025 Sediment Chemistry Data

Analyte	RDL	Units	SW16-8									TUL-09								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.56	0.79	0.55	0.25	0.7	0.6	0.6	0.2	32.2	0.72	0.78	0.63	0.7	0.79	0.7	0.7	0.1	8.0
pH (lab)		**pH Units**	8.22	8.26	7.58	8.49	7.96	----	----	----	----	8.18	8.31	8.18	8.17	8.2	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	0.29	<0.06	0.13	<0.06	<0.06	0.1	0.1	0.1	74.3	<0.06	0.07	<0.06	<0.06	<0.06	0.1	0.1	0.0	6.5
Total Aluminum (Al)	**100**	**mg/kg dw**	10800	10100	10800	8980	9510	10038	10100	716	7.1	10400	11200	10500	10700	11200	10800	10700	341	3.2
Total Antimony (Sb)	**0.1**	**mg/kg dw**	2.4	2.19	2.84	2.06	2.09	2.3	2.2	0.3	12.4	3.7	5.96	3.17	3.54	5.17	4.3	3.7	1.1	24.8
Total Arsenic (As)	**0.2**	**mg/kg dw**	28.8	24.9	31	24.8	25.2	26.9	25.2	2.5	9.3	59.5	82.9	48.2	56.8	79.2	65.3	59.5	13.4	20.6
Total Barium (Ba)	**0.2**	**mg/kg dw**	145	132	169	134	138	144	138	13.5	9.4	138	170	120	124	163	143	138	20.2	14.1
Total Beryllium (Be)	**0.2**	**mg/kg dw**	0.36	0.34	0.31	0.31	0.28	0.3	0.3	0.03	8.6	0.5	0.52	0.54	0.5	0.53	0.5	0.5	0.02	3.1
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	0.27	0.13	0.21	0.26	0.13	0.2	0.2	0.1	30.3	0.15	0.18	0.14	0.15	0.19	0.2	0.2	0.02	12.0
Total Boron (B)	**1**	**mg/kg dw**	3.3	2.8	2.8	2.4	2.1	2.7	2.8	0.4	15.2	6.6	6.1	5.7	5.4	6.2	6.0	6.1	0.4	6.9
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	1.92	1.33	1.85	0.926	2.08	1.6	1.9	0.4	26.5	1.12	1.11	0.946	1.06	1.25	1.1	1.1	0.1	9.0
Total Calcium (Ca)	**100**	**mg/kg dw**	11100	8150	4840	13500	5180	8554	8150	3355	39.2	25400	26600	25500	24300	25800	25520	25500	741	2.9
Total Chromium (Cr)	**0.5**	**mg/kg dw**	40.3	35.1	38.2	32	33.3	35.8	35.1	3.1	8.6	39.1	43.4	40.4	38.5	41.6	40.6	40.4	1.8	4.3
Total Cobalt (Co)	**0.1**	**mg/kg dw**	11.5	10.3	11.5	9.91	9.98	10.6	10.3	0.7	6.7	13.6	14.7	12.4	13.3	15.5	13.9	13.6	1.1	7.8
Total Copper (Cu)	**0.5**	**mg/kg dw**	111	83.5	107	53.1	95.1	89.9	95.1	20.8	23.1	45.2	53.1	44	44.9	52.8	48.0	45.2	4.1	8.5
Total Iron (Fe)	**100**	**mg/kg dw**	33400	30700	32500	28400	30200	31040	30700	1760	5.7	32200	34900	31700	31200	35400	33080	32200	1727	5.2
Total Lead (Pb)	**0.1**	**mg/kg dw**	23.4	15.1	28.8	13.2	18.2	19.7	18.2	5.7	28.8	11	12	9.04	9.63	13	10.9	11.0	1.5	13.4
Total Lithium (Li)	**0.5**	**mg/kg dw**	14.6	13.5	13.4	12.5	12.1	13.2	13.4	0.9	6.6	19.5	18.7	18.2	18	19.7	18.8	18.7	0.7	3.6
Total Magnesium (Mg)	**100**	**mg/kg dw**	9410	8660	8680	8120	8070	8588	8660	485	5.6	12000	13100	11400	12100	12800	12280	12100	605	4.9
Total Manganese (Mn)	**0.2**	**mg/kg dw**	506	453	376	472	452	452	453	42.6	9.4	595	627	552	567	627	594	595	30.6	5.1
Total Mercury (Hg)	**0.05**	**mg/kg dw**	0.149	0.106	0.1	0.085	0.075	0.1	0.1	0.03	24.7	0.159	0.217	0.09	0.109	0.16	0.1	0.2	0.04	30.3
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	5.03	4.04	4.93	4.66	4.28	4.6	4.7	0.4	8.2	6.47	6	5.83	6.39	6.8	6.3	6.4	0.3	5.5
Total Nickel (Ni)	**0.5**	**mg/kg dw**	50.7	45.5	48.3	46.9	41.7	46.6	46.9	3.0	6.4	78.8	79.1	74.2	79.2	86.8	79.6	79.1	4.1	5.1
Total Phosphorus (P)	**10**	**mg/kg dw**	786	682	1030	640	693	766	693	140	18.3	858	923	741	816	937	855	858	71.9	8.4
Total Potassium (K)	**100**	**mg/kg dw**	1120	1080	1090	1060	1000	1088	1085	21.7	2.0	1090	1210	1040	1060	1190	1118	1090	69.1	6.2
Total Selenium (Se)	**0.5**	**mg/kg dw**	1.02	0.89	1.16	1.03	0.85	1.0	1.0	0.1	11.2	2.03	1.81	1.75	1.96	2.27	2.0	2.0	0.2	9.3
Total Silver (Ag)	**0.05**	**mg/kg dw**	0.281	0.168	0.24	0.179	0.162	0.2	0.2	0.05	22.7	0.187	0.182	0.154	0.157	0.202	0.2	0.2	0.02	10.4
Total Sodium (Na)	**100**	**mg/kg dw**	193	177	164	141	157	166.4	164	17.7	10.6	<100	134	<100	<100	106	108	100	13.2	12.2
Total Strontium (Sr)	**0.1**	**mg/kg dw**	57.2	46.8	30.3	67.2	32.9	46.9	46.8	14.1	30.0	140	144	139	131	143	139	140	4.6	3.3
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.322	0.284	0.321	0.344	0.248	0.3	0.3	0.03	11.2	0.44	0.442	0.401	0.439	0.501	0.4	0.4	0.03	7.2
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.29	0.18	0.2	0.2	0.2	0.2	0.2	0.04	18.1	0.29	0.29	0.23	0.26	0.24	0.3	0.3	0.02	9.5
Total Titanium (Ti)	**1**	**mg/kg dw**	369	334	293	277	355	325.6	334.0	35.3	10.9	96.6	123	96.2	81.2	98.5	99.1	96.6	13.5	13.6
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	0.53	<0.5	0.5	0.5	0.01	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0
Total Uranium (U)	**0.05**	**mg/kg dw**	2.37	1.28	1.11	0.957	0.891	1.3	1.1	0.5	40.9	0.895	0.955	0.704	0.922	1.22	0.9	0.9	0.2	17.6
Total Vanadium (V)	**1**	**mg/kg dw**	60.5	56.6	57.2	51.4	58	56.7	57.2	3.0	5.3	45.8	48.8	45.2	43.5	47.9	46.2	45.8	1.9	4.1
Total Zinc (Zn)	**1**	**mg/kg dw**	308	250	300	159	276	258.6	276.0	53.8	20.8	146	145	135	138	159	145	145	8.3	5.7
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	1.65	1.4	1.38	1.38	1.21	1.4	1.4	0.1	10.0	1.67	1.79	1.49	1.55	1.74	1.6	1.7	0.1	6.8
Clay Content	**2**	**%**	<2	<2	<2	<2	<2	2.0	2.0	0.0	0.0	2.4	4.9	<2	2.5	3.8	3.1	2.5	1.1	34.5
Sand by hydrometer	**2**	**%**	96	97	95	94	95	95.4	95.0	1.0	1.1	91	59	94	88	68	80.0	88.0	13.9	17.4
Silt by hydrometer	**2**	**%**	4.3	3.4	4.7	4.2	4.4	4.2	4.3	0.4	10.3	6.7	36	4.4	9.5	28	16.9	9.5	12.7	74.9

Appendix D2: September 2025 Sediment Chemistry Data

Analyte	RDL	Units	SW16-8									TUL-09								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.42	0.43	0.63	1.2	0.34	0.6	0.4	0.3	51.8	0.65	0.51	0.54	0.38	0.58	0.5	0.5	0.1	16.8
pH (lab)		**pH Units**	7.53	7.98	7.44	7.82	7.63	----	----	----	----	8.25	8.2	8.17	8.32	8.21	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	0.08	0.07	<0.06	<0.06	<0.06	0.1	0.1	0.01	12.1	0.08	0.21	0.16	0.11	0.18	0.1	0.2	0.05	31.8
Total Aluminum (Al)	**100**	**mg/kg dw**	10600	9410	10400	12200	10700	10662	10600	895	8.4	9350	9460	9520	9060	10600	9598	9460	525	5.5
Total Antimony (Sb)	**0.1**	**mg/kg dw**	1.88	1.44	1.24	3.76	2.1	2.1	1.9	0.9	42.8	1.44	1.34	1.29	0.96	1.69	1.3	1.3	0.2	17.6
Total Arsenic (As)	**0.2**	**mg/kg dw**	27.5	19.1	17.8	42.5	25.8	26.5	25.8	8.8	33.2	30.4	25.2	25.4	16.7	34.2	26.4	25.4	5.9	22.3
Total Barium (Ba)	**0.2**	**mg/kg dw**	141	90.8	131	222	123	141.6	131.0	43.6	30.8	146	142	143	117	172	144.0	143.0	17.4	12.1
Total Beryllium (Be)	**0.2**	**mg/kg dw**	0.3	0.27	<0.2	0.4	0.29	0.3	0.3	0.1	22.0	0.27	0.26	0.25	<0.2	0.31	0.3	0.3	0.04	13.7
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	0.14	0.12	0.14	0.21	0.13	0.1	0.1	0.03	21.5	0.12	0.13	0.15	<0.1	0.15	0.1	0.1	0.02	14.6
Total Boron (B)	**1**	**mg/kg dw**	1.5	1.1	<1	2.3	1.5	1.5	1.5	0.5	30.9	2.2	1.8	1.7	1	2.3	1.8	1.8	0.5	25.6
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	2.06	1.51	1.97	1.83	2.8	2.0	2.0	0.4	20.9	0.623	0.49	0.496	0.354	0.614	0.5	0.5	0.1	19.1
Total Calcium (Ca)	**100**	**mg/kg dw**	5380	4490	6050	10100	4790	6162	5380	2040	33.1	12500	10800	9700	8900	13500	11080	10800	1709	15.4
Total Chromium (Cr)	**0.5**	**mg/kg dw**	34.2	25.2	23.8	36.3	32.8	30.5	32.8	5.0	16.5	29.8	28.9	29.9	24.7	35.2	29.7	29.8	3.3	11.3
Total Cobalt (Co)	**0.1**	**mg/kg dw**	9.98	8	8.42	12.9	9.78	9.8	9.8	1.7	17.5	11.9	11.3	11.2	9.1	14.1	11.5	11.3	1.6	13.9
Total Copper (Cu)	**0.5**	**mg/kg dw**	109	85.6	79.6	107	100	96.2	100.0	11.7	12.1	42.4	41.3	42.2	32.4	48.9	41.4	42.2	5.3	12.7
Total Iron (Fe)	**100**	**mg/kg dw**	29500	20900	23300	33400	28000	27020	28000	4452	16.5	25100	24700	25000	20900	28600	24860	25000	2440	9.8
Total Lead (Pb)	**0.1**	**mg/kg dw**	31.9	16.2	14.7	33.4	21	23.4	21.0	7.8	33.3	6.86	6.43	7.27	5.19	8.16	6.8	6.9	1.0	14.4
Total Lithium (Li)	**0.5**	**mg/kg dw**	14	12.7	13.2	15.5	14.4	14.0	14.0	1.0	7.0	12.7	11.9	11.7	11.3	13.8	12.3	11.9	0.9	7.2
Total Magnesium (Mg)	**100**	**mg/kg dw**	8620	7680	7920	9880	8710	8562	8620	768	9.0	8890	8480	8420	7610	9940	8668	8480	759	8.8
Total Manganese (Mn)	**0.2**	**mg/kg dw**	413	356	386	719	407	456	407	133	29.1	479	431	450	398	526	457	450	43.5	9.5
Total Mercury (Hg)	**0.05**	**mg/kg dw**	0.193	<0.05	<0.05	0.106	0.125	0.1	0.1	0.1	50.8	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.1	0.0	0.0
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	3.81	3.25	2.64	5.21	3.64	3.7	3.6	0.9	22.9	3.45	3.04	3.03	2.28	3.77	3.1	3.0	0.5	16.1
Total Nickel (Ni)	**0.5**	**mg/kg dw**	41.6	33.5	30.9	52.5	42.4	40.2	41.6	7.6	18.9	55.4	54.6	47.7	37.5	63.6	51.8	54.6	8.7	16.9
Total Phosphorus (P)	**10**	**mg/kg dw**	706	537	672	870	688	695	688	106	15.3	695	667	660	566	754	668	667	61.0	9.1
Total Potassium (K)	**100**	**mg/kg dw**	944	928	1080	1080	986	1004	986	65.2	6.5	1310	1260	1310	1260	1310	1290	1310	24.5	1.9
Total Selenium (Se)	**0.5**	**mg/kg dw**	0.88	0.69	0.6	1.43	0.87	0.9	0.9	0.3	32.3	1.06	0.92	0.92	0.67	1.26	1.0	0.9	0.2	20.0
Total Silver (Ag)	**0.05**	**mg/kg dw**	0.244	0.146	0.14	0.454	0.208	0.2	0.2	0.1	48.1	0.107	0.115	0.127	0.081	0.127	0.1	0.1	0.02	15.3
Total Sodium (Na)	**100**	**mg/kg dw**	151	119	168	190	144	154	151	23.8	15.4	<100	130	139	117	130	123	130	13.6	11.0
Total Strontium (Sr)	**0.1**	**mg/kg dw**	29.2	26.7	29.1	48.4	28.1	32.3	29.1	8.1	25.1	58	53.1	47.9	38.9	65.5	52.7	53.1	9.0	17.1
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.248	0.216	0.18	0.35	0.242	0.2	0.2	0.1	22.9	0.236	0.211	0.213	0.157	0.247	0.2	0.2	0.03	14.6
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.22	0.16	0.21	0.27	0.18	0.2	0.2	0.04	18.1	0.23	0.16	0.18	0.17	0.19	0.2	0.2	0.02	13.0
Total Titanium (Ti)	**1**	**mg/kg dw**	336	284	364	397	331	342.4	336.0	37.5	11.0	273	325	361	326	322	321	325	28.1	8.7
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0	<0.5	<0.5	0.51	<0.5	<0.5	0.5	0.5	0.004	0.8
Total Uranium (U)	**0.05**	**mg/kg dw**	1.65	0.886	1.11	1.29	0.907	1.2	1.1	0.3	24.1	0.846	0.835	1.05	0.96	0.981	0.9	1.0	0.1	8.8
Total Vanadium (V)	**1**	**mg/kg dw**	55.5	38.1	42.4	57.2	50.7	48.8	50.7	7.4	15.2	40.6	41.1	44.8	36.2	45.5	41.6	41.1	3.3	8.0
Total Zinc (Zn)	**1**	**mg/kg dw**	276	213	255	305	354	280.6	276	47.4	16.9	89.9	79.1	79.8	66	96.3	82.2	79.8	10.4	12.6
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	1.07	0.9	1.04	1.2	1.06	1.1	1.1	0.1	9.1	0.82	0.94	0.88	0.75	1	0.9	0.9	0.1	10.0
Clay Content	**2**	**%**	<2	<2	<2	<2	2.1	2.0	2.0	0.04	2.0	2.8	<2	<2	<2	<2	2.2	2.0	0.3	14.8
Sand by hydrometer	**2**	**%**	92	94	91	77	93	89.4	92.0	6.3	7.0	75	71	67	73	65	70.2	71.0	3.7	5.3
Silt by hydrometer	**2**	**%**	8	5.1	8.6	21	4.5	9.4	8.0	6.0	63.5	23	29	32	27	34	29.0	29.0	3.8	13.3

Appendix D2: June 2025 Sediment Chemistry Data

Analyte	RDL	Units	SW24-7								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.36	0.47	0.8	0.9	0.9	0.7	0.8	0.2	33.1
pH (lab)		**pH Units**	8.38	8.5	8.29	8.17	8.13	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	0.06	<0.06	0.07	<0.06	<0.06	0.1	0.1	0.004	6.5
Total Aluminum (Al)	**100**	**mg/kg dw**	10100	10500	10600	11800	11400	10880	10600	624	5.7
Total Antimony (Sb)	**0.1**	**mg/kg dw**	1.72	1.04	2.98	3.19	3.39	2.5	3.0	0.9	37.3
Total Arsenic (As)	**0.2**	**mg/kg dw**	33.8	19	46.4	58	59.7	43.4	46.4	15.3	35.3
Total Barium (Ba)	**0.2**	**mg/kg dw**	142	103	171	207	173	159	171	34.8	21.9
Total Beryllium (Be)	**0.2**	**mg/kg dw**	0.32	0.25	0.4	0.54	0.49	0.4	0.4	0.1	26.6
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	0.11	0.11	0.14	0.16	0.16	0.1	0.1	0.02	16.5
Total Boron (B)	**1**	**mg/kg dw**	5.6	3.3	8.2	8.3	7.4	6.6	7.4	1.9	28.9
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	0.65	0.489	0.768	1.23	1.26	0.9	0.8	0.3	35.4
Total Calcium (Ca)	**100**	**mg/kg dw**	12900	10600	16600	22300	22300	16940	16600	4777	28.2
Total Chromium (Cr)	**0.5**	**mg/kg dw**	32.2	30.9	33.5	40.7	40.2	35.5	33.5	4.1	11.6
Total Cobalt (Co)	**0.1**	**mg/kg dw**	11.2	9.85	12.4	15.4	15.4	12.9	12.4	2.2	17.4
Total Copper (Cu)	**0.5**	**mg/kg dw**	40.8	37.5	41.3	51.5	51.6	44.5	41.3	5.9	13.2
Total Iron (Fe)	**100**	**mg/kg dw**	28300	26200	28800	33600	33700	30120	28800	3012	10.0
Total Lead (Pb)	**0.1**	**mg/kg dw**	8.51	6.98	8.62	11.1	11.1	9.3	8.6	1.6	17.4
Total Lithium (Li)	**0.5**	**mg/kg dw**	12.6	12.4	15.8	17.9	17.8	15.3	15.8	2.4	15.7
Total Magnesium (Mg)	**100**	**mg/kg dw**	9690	9390	10300	12500	12200	10816	10300	1290	11.9
Total Manganese (Mn)	**0.2**	**mg/kg dw**	487	441	520	621	621	538	520	72.3	13.4
Total Mercury (Hg)	**0.05**	**mg/kg dw**	0.178	0.065	0.279	0.146	0.161	0.2	0.2	0.1	41.4
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	3.56	3.34	4.36	5.82	5.93	4.6	4.4	1.1	23.8
Total Nickel (Ni)	**0.5**	**mg/kg dw**	50	36.2	58.5	89.1	86	64.0	58.5	20.6	32.1
Total Phosphorus (P)	**10**	**mg/kg dw**	747	678	768	831	820	769	768	55.2	7.2
Total Potassium (K)	**100**	**mg/kg dw**	1170	1150	1240	1380	1270	1242	1240	81.8	6.6
Total Selenium (Se)	**0.5**	**mg/kg dw**	1.07	0.71	1.72	2.06	1.94	1.5	1.7	0.5	34.8
Total Silver (Ag)	**0.05**	**mg/kg dw**	0.128	0.097	0.131	0.171	0.184	0.1	0.1	0.03	22.1
Total Sodium (Na)	**100**	**mg/kg dw**	155	170	142	128	120	143	142	18.0	12.6
Total Strontium (Sr)	**0.1**	**mg/kg dw**	71.1	51.3	85.9	121	124	90.7	85.9	28.2	31.1
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.277	0.203	0.33	0.452	0.433	0.3	0.3	0.1	27.7
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.31	0.23	0.3	0.34	0.31	0.3	0.3	0.04	12.3
Total Titanium (Ti)	**1**	**mg/kg dw**	334	422	259	158	147	264	259	105	39.7
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	0.0	0.0
Total Uranium (U)	**0.05**	**mg/kg dw**	0.973	0.735	1	0.983	0.955	0.9	1.0	0.1	10.6
Total Vanadium (V)	**1**	**mg/kg dw**	50	52.6	46.2	48.5	47.5	49.0	48.5	2.2	4.5
Total Zinc (Zn)	**1**	**mg/kg dw**	108	99.3	118	148	150	125	118	20.7	16.6
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	1.47	1.15	1.58	1.96	1.7	1.6	1.6	0.3	17.0
Clay Content	**2**	**%**	2.7	<2	2.1	4.8	4.2	3.2	2.7	1.1	35.9
Sand by hydrometer	**2**	**%**	85	95	80	68	71	79.8	80.0	9.7	12.2
Silt by hydrometer	**2**	**%**	13	3.3	18	27	25	17.3	18.0	8.6	49.7

Appendix D2: September 2025 Sediment Chemistry Data

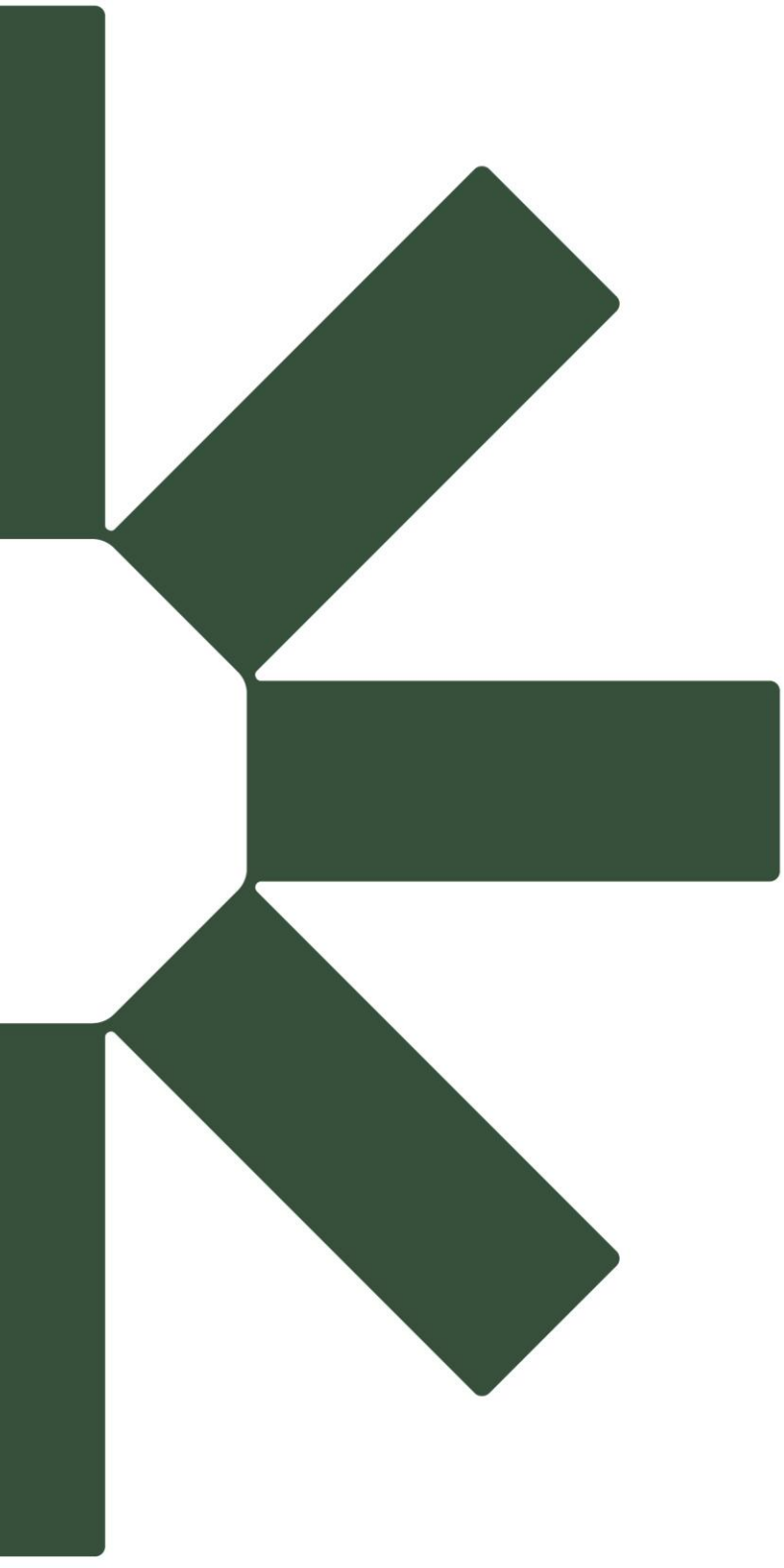
Analyte	RDL	Units	SW24-7								
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Mean	Median	SD	CV
TOC	**0.05**	**%**	0.48	0.52	0.44	0.58	0.59	0.5	0.5	0.1	11.0
pH (lab)		**pH Units**	8.3	8.29	8.22	8.21	8.22	----	----	----	----
Total Sulphur (S)	**0.06**	**%**	0.07	0.06	0.06	<0.06	<0.06	0.1	0.1	0.004	6.5
Total Aluminum (Al)	**100**	**mg/kg dw**	11000	11300	12100	11600	12000	11600	11600	415	3.6
Total Antimony (Sb)	**0.1**	**mg/kg dw**	1.46	1.59	1.67	1.83	1.46	1.6	1.6	0.1	8.7
Total Arsenic (As)	**0.2**	**mg/kg dw**	24.1	29.4	37.5	31.6	27.4	30.0	29.4	4.5	15.0
Total Barium (Ba)	**0.2**	**mg/kg dw**	110	134	158	151	135	145	143	10.3	7.1
Total Beryllium (Be)	**0.2**	**mg/kg dw**	0.4	0.31	0.29	0.32	0.33	0.3	0.3	0.04	11.3
Total Bismuth (Bi)	**0.1**	**mg/kg dw**	0.14	0.13	0.36	0.19	0.4	0.2	0.2	0.1	46.6
Total Boron (B)	**1**	**mg/kg dw**	5.8	2.6	2.9	2.7	2.2	3.2	2.7	1.3	40.1
Total Cadmium (Cd)	**0.05**	**mg/kg dw**	0.693	0.589	0.597	0.678	0.628	0.6	0.6	0.04	6.6
Total Calcium (Ca)	**100**	**mg/kg dw**	13400	14400	12000	13200	11400	12880	13200	1063	8.3
Total Chromium (Cr)	**0.5**	**mg/kg dw**	31.1	33.8	42.3	36.9	33.9	35.6	33.9	3.8	10.7
Total Cobalt (Co)	**0.1**	**mg/kg dw**	10.5	11.5	12.8	12	11.7	11.7	11.7	0.7	6.4
Total Copper (Cu)	**0.5**	**mg/kg dw**	38.1	44.3	45	74.7	47.7	50.0	45.0	12.8	25.5
Total Iron (Fe)	**100**	**mg/kg dw**	26100	27300	43000	31500	28600	31300	28600	6120	19.6
Total Lead (Pb)	**0.1**	**mg/kg dw**	7.01	7.11	13	11	9.15	9.5	9.2	2.3	24.4
Total Lithium (Li)	**0.5**	**mg/kg dw**	14.4	14.4	14.4	14.6	14.8	14.5	14.4	0.2	1.1
Total Magnesium (Mg)	**100**	**mg/kg dw**	9470	10000	10100	10100	10100	9954	10100	245	2.5
Total Manganese (Mn)	**0.2**	**mg/kg dw**	464	492	527	510	531	505	510	24.6	4.9
Total Mercury (Hg)	**0.05**	**mg/kg dw**	0.065	<0.05	0.052	0.05	<0.05	0.1	0.1	0.01	11.0
Total Molybdenum (Mo)	**0.1**	**mg/kg dw**	2.98	3.01	3.27	3.59	3.41	3.3	3.3	0.2	7.2
Total Nickel (Ni)	**0.5**	**mg/kg dw**	45.5	48.6	50.6	51.3	49.1	49.0	49.1	2.0	4.1
Total Phosphorus (P)	**10**	**mg/kg dw**	681	715	819	698	695	722	698	49.9	6.9
Total Potassium (K)	**100**	**mg/kg dw**	1070	1210	1320	1210	1320	1265	1265	55.0	4.3
Total Selenium (Se)	**0.5**	**mg/kg dw**	0.91	0.89	0.89	0.95	0.93	0.9	0.9	0.02	2.6
Total Silver (Ag)	**0.05**	**mg/kg dw**	0.098	0.104	0.139	0.139	0.14	0.1	0.1	0.02	15.2
Total Sodium (Na)	**100**	**mg/kg dw**	154	169	203	168	205	180	169	20.5	11.4
Total Strontium (Sr)	**0.1**	**mg/kg dw**	62.4	66.9	61.9	65.6	58	63.0	62.4	3.1	4.9
Total Thallium (Tl)	**0.05**	**mg/kg dw**	0.222	0.23	0.224	0.244	0.238	0.2	0.2	0.01	3.6
Total Tin (Sn)	**0.1**	**mg/kg dw**	0.22	0.22	0.31	0.21	0.27	0.2	0.2	0.04	15.6
Total Titanium (Ti)	**1**	**mg/kg dw**	366	399	509	452	481	441	452	52.4	11.9
Total Tungsten (W)	**0.5**	**mg/kg dw**	<0.5	<0.5	0.59	1.07	<0.5	0.6	0.5	0.2	35.1
Total Uranium (U)	**0.05**	**mg/kg dw**	0.897	0.805	3.41	1.59	1.13	1.6	1.1	1.0	61.4
Total Vanadium (V)	**1**	**mg/kg dw**	45.8	49.4	98.6	59.1	51.4	60.9	51.4	19.4	31.8
Total Zinc (Zn)	**1**	**mg/kg dw**	105	102	106	121	113	109	106	6.8	6.2
Total Zirconium (Zr)	**0.5**	**mg/kg dw**	1.03	1.02	1.27	1.29	1.24	1.2	1.2	0.1	10.2
Clay Content	**2**	**%**	<2	2.3	4.9	2.3	5.5	3.4	2.3	1.5	43.7
Sand by hydrometer	**2**	**%**	87	88	78	82	81	83.2	82.0	3.8	4.5
Silt by hydrometer	**2**	**%**	12	9.7	17	16	14	13.7	14.0	2.7	19.3

Appendix D3: June 2025 Sediment QA/QC

Analyte	Units	RDL	TUL-09-1	TUL-09-1-SPLIT	RPD	TUL-09-AEMP-3	TUL-09-3-SPLIT	RPD	W11-1	W11-1-SPLITS	RPD	TUL-06-5	TUL-06-5-SPLIT	RPD	SW16-1-5	SW16-1-5-SPLIT	RPD
TOC	%	0.05	0.72	0.7	2.8	0.63	0.73	14.7	0.38	0.34	11.1	0.39	0.39	0.0	0.45	0.41	9.3
Total Sulphur (S)	%	0.06	<0.06	<0.06	----	<0.06	<0.06	----	<0.06	<0.06	----	0.07	0.08	13.3	0.13	0.1	26.1
Total Aluminum (Al)	mg/kg dw	100	10400	10500	1.0	10500	10600	0.9	13200	12300	7.1	9850	9700	1.5	10700	11200	4.6
Total Antimony (Sb)	mg/kg dw	0.1	3.7	2.96	22.2	3.17	2.97	6.5	1.45	1.44	0.7	0.29	0.22	27.5	2.31	2.45	5.9
Total Arsenic (As)	mg/kg dw	0.2	59.5	44.4	29.1	48.2	47.5	1.5	24.5	21.4	13.5	8.06	5.18	**43.5**	43	45.5	5.6
Total Barium (Ba)	mg/kg dw	0.2	138	117	16.5	120	117	2.5	80.1	75.3	6.2	177	190	7.1	165	194	16.2
Total Beryllium (Be)	mg/kg dw	0.2	0.5	0.46	8.3	0.54	0.44	20.4	0.41	0.31	27.8	<0.20	<0.20	----	0.35	0.4	13.3
Total Bismuth (Bi)	mg/kg dw	0.1	0.15	0.12	22.2	0.14	0.14	0.0	0.13	0.11	16.7	0.13	0.14	7.4	0.16	0.15	6.5
Total Boron (B)	mg/kg dw	1	6.6	6	9.5	5.7	5.5	3.6	3.1	2.3	29.6	<1.0	<1.0	----	3.2	3.6	11.8
Total Cadmium (Cd)	mg/kg dw	0.05	1.12	1.02	9.3	0.946	1.04	9.5	2.95	2.92	1.0	0.243	0.259	6.4	0.615	0.596	3.1
Total Calcium (Ca)	mg/kg dw	100	25400	24600	3.2	25500	25900	1.6	10600	10900	2.8	3540	3260	8.2	13200	14000	5.9
Total Chromium (Cr)	mg/kg dw	0.5	39.1	37.7	3.6	40.4	38.6	4.6	30.9	29.2	5.7	34.8	36.5	4.8	38.5	39.3	2.1
Total Cobalt (Co)	mg/kg dw	0.1	13.6	12.1	11.7	12.4	12.1	2.4	8.99	8.47	6.0	11.8	11.9	0.8	12.6	13	3.1
Total Copper (Cu)	mg/kg dw	0.5	45.2	46.1	2.0	44	41.1	6.8	1220	1190	2.5	51.4	52	1.2	43	41.1	4.5
Total Iron (Fe)	mg/kg dw	100	32200	29800	7.7	31700	30400	4.2	27300	24700	10.0	23700	22900	3.4	38800	39600	2.0
Total Lead (Pb)	mg/kg dw	0.1	11	8.29	28.1	9.04	8.23	9.4	28.6	28	2.1	5.32	6.37	18.0	9.01	9.73	7.7
Total Lithium (Li)	mg/kg dw	0.5	19.5	18.1	7.4	18.2	18.2	0.0	15.8	13.3	17.2	9.24	8.7	6.0	14	14.6	4.2
Total Magnesium (Mg)	mg/kg dw	100	12000	11500	4.3	11400	11800	3.4	9710	8850	9.3	8150	8190	0.5	9710	10400	6.9
Total Manganese (Mn)	mg/kg dw	0.2	595	549	8.0	552	536	2.9	425	399	6.3	455	463	1.7	484	495	2.2
Total Mercury (Hg)	mg/kg dw	0.05	0.159	0.13	20.1	0.09	0.102	12.5	0.138	0.06	78.8	<0.050	<0.050	----	0.112	0.097	14.4
Total Molybdenum (Mo)	mg/kg dw	0.1	6.47	6.1	5.9	5.83	5.77	1.0	4.18	3.94	5.9	2.79	2.85	2.1	3.61	3.8	5.1
Total Nickel (Ni)	mg/kg dw	0.5	78.8	73.6	6.8	74.2	74.1	0.1	36.6	37.2	1.6	37	39.5	6.5	50.8	54.2	6.5
Total Phosphorus (P)	mg/kg dw	10	858	732	15.8	741	722	2.6	730	683	6.7	634	629	0.8	956	963	0.7
Total Potassium (K)	mg/kg dw	100	1090	1060	2.8	1040	1040	0.0	1380	1300	6.0	1530	1500	2.0	1440	1480	2.7
Total Selenium (Se)	mg/kg dw	0.5	2.03	1.65	20.7	1.75	1.64	6.5	0.75	0.78	3.9	<0.50	0.55	----	1.05	1.14	8.2
Total Silver (Ag)	mg/kg dw	0.05	0.187	0.142	27.4	0.154	0.151	2.0	0.169	0.144	16.0	0.129	0.12	7.2	0.139	0.144	3.5
Total Sodium (Na)	mg/kg dw	100	<100	<100	----	<100	<100	----	222	219	1.4	153	145	5.4	247	218	12.5
Total Strontium (Sr)	mg/kg dw	0.1	140	133	5.1	139	139	0.0	47.9	55.3	14.3	16.7	14.9	11.4	73.9	77.7	5.0
Total Thallium (Tl)	mg/kg dw	0.05	0.44	0.391	11.8	0.401	0.377	6.2	0.291	0.281	3.5	0.106	0.122	14.0	0.239	0.261	8.8
Total Tin (Sn)	mg/kg dw	0.1	0.29	0.25	14.8	0.23	0.24	4.3	0.21	0.21	0.0	0.26	0.28	7.4	0.33	0.32	3.1
Total Titanium (Ti)	mg/kg dw	1	96.6	103	6.4	96.2	85	12.4	402	397	1.3	598	630	5.2	498	511	2.6
Total Tungsten (W)	mg/kg dw	0.5	<0.50	<0.50	----	<0.50	<0.50	----	<0.50	<0.50	----	<0.50	<0.50	----	<0.50	<0.50	----
Total Uranium (U)	mg/kg dw	0.05	0.895	0.756	16.8	0.704	0.731	3.8	1.98	1.86	6.2	1.09	1.05	3.7	1.52	2.18	35.7
Total Vanadium (V)	mg/kg dw	1	45.8	43.7	4.7	45.2	44.1	2.5	48.9	46	6.1	46.1	45	2.4	72.9	75.6	3.6
Total Zinc (Zn)	mg/kg dw	1	146	131	10.8	135	139	2.9	598	575	3.9	63.4	61.5	3.0	102	98.3	3.7
Total Zirconium (Zr)	mg/kg dw	0.5	1.67	1.51	10.1	1.49	1.66	10.8	1.33	1.33	0.0	0.56	0.57	1.8	1.61	1.64	1.8
	Values exceed QA/QC limit (± 40%) and data are >5 x RDL																

Appendix D3 - September 2025 Sediment QA/QC

Analyte	Units	RDL	SW24-7-5	SW24-7-5-SPLIT	RPD	W11-5	W11-5-SPLIT	RPD	SW24-11-5	SW24-11-5-SPLIT	RPD	TUL-06-3	TUL-06-3-SPLIT	RPD
TOC	%	0.05	0.59	0.54	8.8	0.41	0.36	13.0	1.3	0.48	92.1	0.88	0.59	39.5
Total Sulphur (S)	%	0.06	<0.06	<0.06	----	0.1	0.06	50.0	0.12	<0.06	----	0.23	0.21	9.1
Total Aluminum (Al)	mg/kg dw	100	12000	12700	5.7	12400	11600	6.7	14300	12700	11.9	7070	6750	4.6
Total Antimony (Sb)	mg/kg dw	0.1	1.46	1.6	9.2	1.78	2.13	17.9	3.68	1.74	**71.6**	0.2	0.22	9.5
Total Arsenic (As)	mg/kg dw	0.2	27.4	30.1	9.4	30	28	6.9	66.3	34.6	**62.8**	4.76	5.91	21.6
Total Barium (Ba)	mg/kg dw	0.2	135	147	8.5	106	94.5	11.5	196	109	**57.0**	116	117	0.9
Total Beryllium (Be)	mg/kg dw	0.2	0.33	0.33	0.0	0.37	0.33	11.4	0.65	0.4	47.6	<0.20	<0.20	----
Total Bismuth (Bi)	mg/kg dw	0.1	0.4	0.21	62.3	0.39	0.11	112.0	0.19	0.17	11.1	0.1	0.1	0.0
Total Boron (B)	mg/kg dw	1	2.2	2.1	4.7	4.3	3.8	12.3	12.1	3.1	**118.4**	1.4	<1.0	----
Total Cadmium (Cd)	mg/kg dw	0.05	0.628	0.694	10.0	4.38	4.1	6.6	1.28	4.8	**115.8**	0.17	0.186	9.0
Total Calcium (Ca)	mg/kg dw	100	11400	12300	7.6	10700	10800	0.9	27500	11700	**80.6**	3550	3630	2.2
Total Chromium (Cr)	mg/kg dw	0.5	33.9	36.5	7.4	32.6	31	5.0	48	34.4	33.0	28.5	25.4	11.5
Total Cobalt (Co)	mg/kg dw	0.1	11.7	12.2	4.2	9.95	9.28	7.0	18	10.6	**51.7**	10.6	9.88	7.0
Total Copper (Cu)	mg/kg dw	0.5	47.7	50.2	5.1	1630	1390	15.9	71.3	1720	**184.1**	53	64.6	19.7
Total Iron (Fe)	mg/kg dw	100	28600	29700	3.8	25500	23800	6.9	38800	27900	32.7	17100	16400	4.2
Total Lead (Pb)	mg/kg dw	0.1	9.15	10	8.9	32.1	28.3	12.6	13.4	37.4	**94.5**	3.62	3.69	1.9
Total Lithium (Li)	mg/kg dw	0.5	14.8	15.4	4.0	13.3	13.2	0.8	22.2	15.2	37.4	6.96	6.96	0.0
Total Magnesium (Mg)	mg/kg dw	100	10100	10500	3.9	8370	8140	2.8	13800	9200	40.0	6480	6040	7.0
Total Manganese (Mn)	mg/kg dw	0.2	531	553	4.1	446	426	4.6	783	477	**48.6**	332	308	7.5
Total Mercury (Hg)	mg/kg dw	0.05	<0.050	<0.050	----	0.05	0.062	21.4	0.316	<0.050	----	<0.050	<0.050	----
Total Molybdenum (Mo)	mg/kg dw	0.1	3.41	3.61	5.7	3.7	3.5	5.6	6.3	3.62	**54.0**	2.2	2	9.5
Total Nickel (Ni)	mg/kg dw	0.5	49.1	50.9	3.6	41.7	41.6	0.2	101	44.8	**77.1**	33.1	31.6	4.6
Total Phosphorus (P)	mg/kg dw	10	695	728	4.6	629	586	7.1	921	736	22.3	560	541	3.5
Total Potassium (K)	mg/kg dw	100	1320	1390	5.2	1200	1160	3.4	1450	1380	4.9	853	846	0.8
Total Selenium (Se)	mg/kg dw	0.5	0.93	0.92	1.1	0.92	0.93	1.1	2.23	1.13	65.5	0.63	0.59	6.6
Total Silver (Ag)	mg/kg dw	0.05	0.14	0.142	1.4	0.137	0.138	0.7	0.214	0.111	63.4	0.073	0.07	4.2
Total Sodium (Na)	mg/kg dw	100	205	219	6.6	168	164	2.4	141	209	38.9	<100	<100	----
Total Strontium (Sr)	mg/kg dw	0.1	58	63.8	9.5	54.5	50.8	7.0	137	56.2	**83.6**	12.6	12.5	0.8
Total Thallium (Tl)	mg/kg dw	0.05	0.238	0.282	16.9	0.252	0.253	0.4	0.459	0.283	**47.4**	0.057	0.063	10.0
Total Tin (Sn)	mg/kg dw	0.1	0.27	0.28	3.6	0.22	0.19	14.6	0.32	0.63	65.3	0.13	<0.10	----
Total Titanium (Ti)	mg/kg dw	1	481	500	3.9	388	354	9.2	152	380	**85.7**	370	362	2.2
Total Tungsten (W)	mg/kg dw	0.5	<0.50	<0.50	----	<0.50	<0.50	----	<0.50	<0.50	----	<0.50	<0.50	----
Total Uranium (U)	mg/kg dw	0.05	1.13	1.17	3.5	2.26	1.94	15.2	1.3	2.52	**63.9**	0.79	0.785	0.6
Total Vanadium (V)	mg/kg dw	1	51.4	54	4.9	47.1	43.6	7.7	54.6	49.3	10.2	31	29.1	6.3
Total Zinc (Zn)	mg/kg dw	1	113	114	0.9	1240	1080	13.8	167	1430	**158.2**	47.4	53.7	12.5
Total Zirconium (Zr)	mg/kg dw	0.5	1.24	1.41	12.8	1.02	1.02	0.0	1.54	1	42.5	<0.50	<0.50	----
	Values exceed QA/QC limit (± 40%) and data are >5 x RDL													



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